<b>Antiobesity carbonic anhydrase inhibitors: a literatu

Expert Opinion on Therapeutic Patents
23, 725-735
DOI: 10.1517/13543776.2013.790957

Citation Report

#	Article	IF	Citations
1	5-Substituted-(1,2,3-triazol-4-yl)thiophene-2-sulfonamides strongly inhibit human carbonic anhydrases I, II, IX and XII: Solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2013, 21, 5130-5138.	1.4	31
2	Synthesis of novel acridine and bis acridine sulfonamides with effective inhibitory activity against the cytosolic carbonic anhydrase isoforms II and VII. Bioorganic and Medicinal Chemistry, 2013, 21, 5799-5805.	1.4	33
3	Effect of incorporating a thiophene tail in the scaffold of acetazolamide on the inhibition of human carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 5646-5649.	1.0	23
4	Structural study of the location of the phenyl tail of benzene sulfonamides and the effect on human carbonic anhydrase inhibition. Bioorganic and Medicinal Chemistry, 2013, 21, 6674-6680.	1.4	12
5	Inhibition of human carbonic anhydrase isoforms Iâ€“XIV with sulfonamides incorporating fluorine and 1,3,5-triazine moieties. Bioorganic and Medicinal Chemistry, 2013, 21, 6929-6936.	1.4	18
6	Sulfonamides and their isosters as carbonic anhydrase inhibitors. Future Medicinal Chemistry, 2014, 6, 1149-1165.	1.1	172
7	Sulfa Drugs as Inhibitors of Carbonic Anhydrase: New Targets for the Old Drugs. BioMed Research International, 2014, 2014, 1-10.	0.9	15
8	A Class of 4-Sulfamoylphenyl-Ï‰-aminoalkyl Ethers with Effective Carbonic Anhydrase Inhibitory Action and Antiglaucoma Effects. Journal of Medicinal Chemistry, 2014, 57, 9673-9686.	2.9	46
9	Structural Insights on Carbonic Anhydrase Inhibitory Action, Isoform Selectivity, and Potency of Sulfonamides and Coumarins Incorporating Arylsulfonylureido Groups. Journal of Medicinal Chemistry, 2014, 57, 9152-9167.	2.9	55
10	Inhibition studies of new ureido-substituted sulfonamides incorporating a GABA moiety against human carbonic anhydrase isoforms Iâ€“XIV. Bioorganic and Medicinal Chemistry, 2014, 22, 6768-6775.	1.4	23
11	Anion inhibition study of the Î²-carbonic anhydrase (CahB1) from the cyanobacterium Coleofasciculus chthonoplastes (ex-Microcoleus chthonoplastes). Bioorganic and Medicinal Chemistry, 2014, 22, 1667-1671.	1.4	25
12	6-Triazolyl-substituted sulfocoumarins are potent, selective inhibitors of the tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1256-1260.	1.0	61
13	Combining the tail and the ring approaches for obtaining potent and isoform-selective carbonic anhydrase inhibitors: Solution and X-ray crystallographic studies. Bioorganic and Medicinal Chemistry, 2014, 22, 334-340.	1.4	104
14	Sulfonamide inhibition studies of two Î²-carbonic anhydrases from the bacterial pathogen Legionella pneumophila. Bioorganic and Medicinal Chemistry, 2014, 22, 2939-2946.	1.4	43
15	Inhibition of carbonic anhydrases from the extremophilic bacteria Sulfurihydrogenibium yellostonense (SspCA) and S. azorense (SazCA) with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. Bioorganic and Medicinal Chemistry, 2014, 22, 141-147.	1.4	42
16	Cloning, characterization and anion inhibition study of the Î´-class carbonic anhydrase (TweCA) from the marine diatom Thalassiosira weissflogii. Bioorganic and Medicinal Chemistry, 2014, 22, 531-537.	1.4	64
17	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with novel Schiff bases: Identification of selective inhibitors for the tumor-associated isoforms over the cytosolic ones. Bioorganic and Medicinal Chemistry, 2014, 22, 5883-5890.	1.4	13
18	Carbonic anhydrase inhibitory activity of sulfonamides and carboxylic acids incorporating cyclic imide scaffolds. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5185-5189.	1.0	47

#	Article	IF	Citations
19	Quinazolineâ€“sulfonamides with potent inhibitory activity against the Î±-carbonic anhydrase from Vibrio cholerae. Bioorganic and Medicinal Chemistry, 2014, 22, 5133-5140.	1.4	41
20	Carbonic Anhydrase Inhibitors: Design, Synthesis, and Biological Evaluation of Novel Sulfonyl Semicarbazide Derivatives. ACS Medicinal Chemistry Letters, 2014, 5, 793-796.	1.3	21
21	Synthesis of 6-tetrazolyl-substituted sulfocoumarins acting as highly potent and selective inhibitors of the tumor-associated carbonic anhydrase isoforms IX and XII. Bioorganic and Medicinal Chemistry, 2014, 22, 1522-1528.	1.4	50
22	How lipidomics provides new insight into drug discovery. Expert Opinion on Drug Discovery, 2014, 9, 819-836.	2.5	9
23	Synthesis and carbonic anhydrase I, II, IX and XII inhibition studies of 4-N,N-disubstituted sulfanilamides incorporating 4,4,4-trifluoro-3-oxo-but-1-enyl, phenacylthiourea and imidazol-2(3H)-one/thione moieties. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1776-1779.	1.0	24
25	Targeting Carbonic Anhydrases. , 2014, , .		9
26	Carbonic Anhydrase II as Target for Drug Design. , 2015, , 51-90.		2
27	Carbonic Anhydrase Protects Fatty Liver Grafts against Ischemic Reperfusion Damage. PLoS ONE, 2015, 10, e0134499.	1.1	8
28	The Structure, Physiological Role, and Potential Medicinal Applications of Carbonic Anhydrase V. , 2015, , 125-138.		2
29	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with Schiffâ€™s bases incorporating iminoureido moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 901-907.	2.5	13
30	Benzenesulfonamides incorporating bulky aromatic/heterocyclic tails with potent carbonic anhydrase inhibitory activity. Bioorganic and Medicinal Chemistry, 2015, 23, 7751-7764.	1.4	17
31	Weight Regain after Discontinuation of Topiramate Treatment in Patients with Migraine: a Prospective Observational Study. CNS Drugs, 2015, 29, 163-169.	2.7	12
32	American Society of Nephrology Quiz and Questionnaire 2014. Clinical Journal of the American Society of Nephrology: CJASN, 2015, 10, 530-539.	2.2	4
33	X-ray crystallographic and kinetic investigations of 6-sulfamoyl-saccharin as a carbonic anhydrase inhibitor. Organic and Biomolecular Chemistry, 2015, 13, 4064-4069.	1.5	26
34	Synthesis of 6-aryl-substituted sulfocoumarins and investigation of their carbonic anhydrase inhibitory action. Bioorganic and Medicinal Chemistry, 2015, 23, 1430-1436.	1.4	43
35	A class of sulfonamide carbonic anhydrase inhibitors with neuropathic pain modulating effects. Bioorganic and Medicinal Chemistry, 2015, 23, 1828-1840.	1.4	126
36	Synthesis and carbonic anhydrase I, II, IX and XII inhibitory activity of sulfamates incorporating piperazinyl-ureido moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 5619-5625.	1.4	15
37	Synthesis of sulfonamides incorporating piperazinyl-ureido moieties and their carbonic anhydrase I, II, IX and XII inhibitory activity. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3850-3853.	1.0	25

#	Article	IF	Citations
38	Acetazolamide for the treatment of idiopathic intracranial hypertension. Expert Review of Neurotherapeutics, 2015, 15, 851-856.	1.4	128
39	Sulfonamide bearing pyrazolylpyrazolines as potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3208-3212.	1.0	43
40	The Î²-carbonic anhydrase from the malaria mosquito Anopheles gambiae is highly inhibited by sulfonamides. Bioorganic and Medicinal Chemistry, 2015, 23, 2303-2309.	1.4	23
42	Synthesis of a new series of dithiocarbamates with effective human carbonic anhydrase inhibitory activity and antiglaucoma action. Bioorganic and Medicinal Chemistry, 2015, 23, 2368-2376.	1.4	40
43	7-Amino-3,4-dihydro-1H-quinolin-2-one, a compound similar to the substituted coumarins, inhibitsÎ±-carbonic anhydrases without hydrolysis of the lactam ring. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 773-777.	2.5	25
44	Sulfonamide inhibition studies of the Î³-carbonic anhydrase from the Antarctic cyanobacterium Nostoc commune. Bioorganic and Medicinal Chemistry, 2015, 23, 1728-1734.	1.4	33
45	Dendrimers incorporating benzenesulfonamide moieties strongly inhibit carbonic anhydrase isoforms Iâ€“XIV. Organic and Biomolecular Chemistry, 2015, 13, 6453-6457.	1.5	13
46	Synthesis of Schiff base derivatives of 4-(2-aminoethyl)-benzenesulfonamide with inhibitory activity against carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2377-2381.	1.0	37
47	Poly(amidoamine) Dendrimers with Carbonic Anhydrase Inhibitory Activity and Antiglaucoma Action. Journal of Medicinal Chemistry, 2015, 58, 4039-4045.	2.9	31
48	Synthesis of novel acridine bis-sulfonamides with effective inhibitory activity against the carbonic anhydrase isoforms I, II, IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 6573-6580.	1.4	27
49	Inhibition of mammalian carbonic anhydrase isoforms Iâ€“XIV with a series of phenolic acid esters. Bioorganic and Medicinal Chemistry, 2015, 23, 7181-7188.	1.4	26
50	New natural product carbonic anhydrase inhibitors incorporating phenol moieties. Bioorganic and Medicinal Chemistry, 2015, 23, 7219-7225.	1.4	43
51	Click-tailed coumarins with potent and selective inhibitory action against the tumor-associated carbonic anhydrases IX and XII. Bioorganic and Medicinal Chemistry, 2015, 23, 6955-6966.	1.4	71
52	Genome-wide association study identifies African-ancestry specific variants for metabolic syndrome. Molecular Genetics and Metabolism, 2015, 116, 305-313.	0.5	41
53	Poly(amidoamine) dendrimers show carbonic anhydrase inhibitory activity against Î±-, Î²-, Î³- and Î·-class enzymes. Bioorganic and Medicinal Chemistry, 2015, 23, 6794-6798.	1.4	29
54	Sulfonamide inhibition studies of the Î·-class carbonic anhydrase from the malaria pathogen Plasmodium falciparum. Bioorganic and Medicinal Chemistry, 2015, 23, 526-531.	1.4	52
55	Inhibition of human carbonic anhydrase isozymes I, II, IX and XII with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 52-56.	2.5	40
56	6-Substituted 1,2-benzoxathiine-2,2-dioxides are isoform-selective inhibitors of human carbonic anhydrases IX, XII and VA. Organic and Biomolecular Chemistry, 2015, 13, 77-80.	1.5	39

#	Article	IF	Citations
57	Phenols and Polyphenols as Carbonic Anhydrase Inhibitors. Molecules, 2016, 21, 1649.	1.7	68
58	A Rational Approach towards the Development of Human Carbonic Anhydrase Inhibitors as Antiepileptic Agent. , 2016, 6, .		0
59	Synthesis and carbonic anhydrase inhibitory effects of new N-glycosylsulfonamides incorporating the phenol moiety. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3892-3895.	1.0	8
60	Investigation of the Effect of Some Optically Active Imine Compounds on the Enzyme Activities of hCAâ€Ⅰ and hCAâ€Ⅱ under In Vitro Conditions: An Experimental and Theoretical Study. Journal of Biochemical and Molecular Toxicology, 2016, 30, 277-286.	1.4	1
61	Carbonic anhydrase inhibition and the management of neuropathic pain. Expert Review of Neurotherapeutics, 2016, 16, 961-968.	1.4	124
62	Synthesis and bioactivity studies on new 4-(3-(4-Substitutedphenyl)-3a,4-dihydro-3H-indeno[1,2-c]pyrazol-2-yl) benzenesulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1619-1624.	2.5	113
63	The anticonvulsant sulfamide JNJ-26990990 and its S,S-dioxide analog strongly inhibit carbonic anhydrases: solution and X-ray crystallographic studies. Organic and Biomolecular Chemistry, 2016, 14, 4853-4858.	1.5	26
64	Structure and function of carbonic anhydrases. Biochemical Journal, 2016, 473, 2023-2032.	1.7	688
65	Benzenesulfonamides Incorporating Flexible Triazole Moieties Are Highly Effective Carbonic Anhydrase Inhibitors: Synthesis and Kinetic, Crystallographic, Computational, and Intraocular Pressure Lowering Investigations. Journal of Medicinal Chemistry, 2016, 59, 10692-10704.	2.9	93
66	Active Components of Essential Oils as Anti-Obesity Potential Drugs Investigated by in Silico Techniques. Journal of Agricultural and Food Chemistry, 2016, 64, 5295-5300.	2.4	31
67	Thermodynamic characterization of human carbonic anhydrase VB stability and intrinsic binding of compounds. Journal of Thermal Analysis and Calorimetry, 2016, 123, 2191-2200.	2.0	16
68	Monothiocarbamates Strongly Inhibit Carbonic Anhydrases in Vitro and Possess Intraocular Pressure Lowering Activity in an Animal Model of Glaucoma. Journal of Medicinal Chemistry, 2016, 59, 5857-5867.	2.9	54
69	Synthesis 4-[2-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-ethyl]-benzenesulfonamides with subnanomolar carbonic anhydrase II and XII inhibitory properties. Bioorganic and Medicinal Chemistry, 2016, 24, 4100-4107.	1.4	17
70	A Divalent PAMAMâ€Based Matrix Metalloproteinase/Carbonic Anhydrase Inhibitor for the Treatment of Dry Eye Syndrome. Chemistry - A European Journal, 2016, 22, 1714-1721.	1.7	17
71	Dithiocarbamates with potent inhibitory activity against theSaccharomyces cerevisiaeÎ²-carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 132-136.	2.5	17
72	How many carbonic anhydrase inhibition mechanisms exist?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 345-360.	2.5	588
73	Weight management in obesity â€“ past and present. International Journal of Clinical Practice, 2016, 70, 206-217.	0.8	74
74	Drug interaction considerations in the therapeutic use of carbonic anhydrase inhibitors. Expert Opinion on Drug Metabolism and Toxicology, 2016, 12, 423-431.	1.5	86

#	Article	IF	Citations
75	Development of 3-(4-aminosulphonyl)-phenyl-2-mercapto-3H-quinazolin-4-ones as inhibitors of carbonic anhydrase isoforms involved in tumorigenesis and glaucoma. Bioorganic and Medicinal Chemistry, 2016, 24, 1402-1407.	1.4	11
76	Synthesis and carbonic anhydrase I, II, IV and XII inhibitory properties of N-protected amino acid â€“ sulfonamide conjugates. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1476-1483.	2.5	18
77	Isatin analogs as novel inhibitors of Candida spp. Î²-carbonic anhydrase enzymes. Bioorganic and Medicinal Chemistry, 2016, 24, 1648-1652.	1.4	23
78	Thioxocoumarins Show an Alternative Carbonic Anhydrase Inhibition Mechanism Compared to Coumarins. Journal of Medicinal Chemistry, 2016, 59, 462-473.	2.9	75
79	Inhibition of carbonic anhydrase isoforms I, II, IV, VII and XII with carboxylates and sulfonamides incorporating phthalimide/phthalic anhydride scaffolds. Bioorganic and Medicinal Chemistry, 2016, 24, 20-25.	1.4	35
80	Synthesis of novel sulfonamide analogs containing sulfamerazine/sulfaguanidine and their biological activities. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1005-1010.	2.5	7
81	Expression and characterization of a recombinant psychrophilic Î³-carbonic anhydrase (NcoCA) identified in the genome of the Antarctic cyanobacteria belonging to the genus Nostoc. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 810-817.	2.5	7
82	A magnificent enzyme superfamily: carbonic anhydrases, their purification and characterization. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 689-694.	2.5	128
83	Synthesis and biological evaluation of cyclic imides incorporating benzenesulfonamide moieties as carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 1666-1671.	1.4	33
84	Microwave assisted synthesis of novel hybrid tacrine-sulfonamide derivatives and investigation of their antioxidant and anticholinesterase activities. Bioorganic Chemistry, 2017, 70, 245-255.	2.0	28
85	Design and Synthesis of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDsâ€“CAIs) for the Treatment of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2017, 60, 1159-1170.	2.9	104
86	Synthesis and human/bacterial carbonic anhydrase inhibition with a series of sulfonamides incorporating phthalimido moieties. Bioorganic and Medicinal Chemistry, 2017, 25, 2524-2529.	1.4	25
87	Lead Development of Thiazolylsulfonamides with Carbonic Anhydrase Inhibitory Action. Journal of Medicinal Chemistry, 2017, 60, 3154-3164.	2.9	18
88	Discovery of Benzenesulfonamides with Potent Human Carbonic Anhydrase Inhibitory and Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Assessment. Journal of Medicinal Chemistry, 2017, 60, 2456-2469.	2.9	49
89	Novel sulfonamide-containing 2-indolinones that selectively inhibit tumor-associated alpha carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2017, 25, 3714-3718.	1.4	25
90	Coumarins and other fused bicyclic heterocycles with selective tumor-associated carbonic anhydrase isoforms inhibitory activity. Bioorganic and Medicinal Chemistry, 2017, 25, 677-683.	1.4	36
91	Synthesis of an acridine orange sulfonamide derivative with potent carbonic anhydrase IX inhibitory action. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 701-706.	2.5	11
92	Psychoactive substances belonging to the amphetamine class potently activate brain carbonic anhydrase isoforms VA, VB, VII, and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1253-1259.	2.5	33

#	Article	IF	Citations
93	Synthesis and biological evaluation of benzenesulphonamide-bearing 1,4,5-trisubstituted-1,2,3-triazoles possessing human carbonic anhydrase I, II, IV, and IX inhibitory activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1187-1194.	2.5	42
94	Development of sulfonamides incorporating phenylacrylamido functionalities as carbonic anhydrase isoforms I, II, IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 5726-5732.	1.4	9
95	Synthesis and carbonic anhydrase I, II, VII, and IX inhibition studies with a series of benzo[d]thiazole-5- and 6-sulfonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1071-1078.	2.5	51
96	Synthesis and biological evaluation of histamine Schiff bases as carbonic anhydrase I, II, IV, VII, and IX activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1305-1312.	2.5	52
97	Carbonic anhydrase I, II, IV and IX inhibition with a series of 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 885-892.	2.5	10
98	Advances in structure-based drug discovery of carbonic anhydrase inhibitors. Expert Opinion on Drug Discovery, 2017, 12, 61-88.	2.5	356
99	A class of carbonic anhydrase I â€“ selective activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 37-46.	2.5	34
100	Discovery of 4-sulfamoyl-phenyl-Î²-lactams as a new class of potent carbonic anhydrase isoforms I, II, IV and VII inhibitors: The first example of subnanomolar CA IV inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 539-544.	1.4	14
102	Carbon- versus sulphur-based zinc binding groups for carbonic anhydrase inhibitors?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 485-495.	2.5	103
103	Carbonic anhydrase activators. Future Medicinal Chemistry, 2018, 10, 561-573.	1.1	127
104	Activation studies of the Î±- and Î²-carbonic anhydrases from the pathogenic bacteriumVibrio choleraewith amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 227-233.	2.5	19
105	Synthesis and Biological Evaluation of 4â€Sulfamoylphenyl/Sulfocoumarin Carboxamides as Selective Inhibitors of Carbonic Anhydrase Isoforms hCAâ€…II, IX, and XII. ChemMedChem, 2018, 13, 1165-1171.	1.6	14
106	Topiramate-induced weight loss depends on level of intellectual disability in patients with epilepsy. Epilepsy and Behavior, 2018, 83, 87-91.	0.9	3
107	Activation studies with amines and amino acids of the Î²-carbonic anhydrase from the pathogenic protozoan Leishmania donovani chagasi. Bioorganic Chemistry, 2018, 78, 406-410.	2.0	18
108	Design and synthesis of novel 1,3-diaryltriazene-substituted sulfonamides as potent and selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2018, 77, 542-547.	2.0	50
109	Investigation of piperazines as human carbonic anhydrase I, II, IV and VII activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 303-308.	2.5	7
110	Activation studies with amines and amino acids of the Î²-carbonic anhydrase encoded by theRv3273gene from the pathogenic bacteriumMycobacterium tuberculosis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 364-369.	2.5	16
111	The Î³-carbonic anhydrase from the pathogenic bacterium Vibrio cholerae is potently activated by amines and amino acids. Bioorganic Chemistry, 2018, 77, 1-5.	2.0	19

#	Article	IF	Citations
112	The first activation study of a Î´-carbonic anhydrase: TweCAÎ´ from the diatomThalassiosira weissflogiiis effectively activated by amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 680-685.	2.5	18
113	Fluoroenesulphonamides:N-sulphonylurea isosteres showing nanomolar selective cancer-related transmembrane human carbonic anhydrase inhibition. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 804-808.	2.5	10
114	Antileishmanial activity of sulphonamide nanoemulsions targeting theÎ²-carbonic anhydrase fromLeishmaniaspecies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 850-857.	2.5	38
115	Discovery of Benzenesulfonamide Derivatives as Carbonic Anhydrase Inhibitors with Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Evaluation. Journal of Medicinal Chemistry, 2018, 61, 3151-3165.	2.9	27
116	Synthesis of novel acridine-sulfonamide hybrid compounds as acetylcholinesterase inhibitor for the treatment of alzheimerâ€™s disease. Medicinal Chemistry Research, 2018, 27, 634-641.	1.1	14
117	Nanoemulsions of sulfonamide carbonic anhydrase inhibitors strongly inhibit the growth of Trypanosoma cruzi. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 139-146.	2.5	52
118	Crystal structure of the human carbonic anhydrase II adduct with 1-(4-sulfamoylphenyl-ethyl)-2,4,6-triphenylpyridinium perchlorate, a membrane-impermeant, isoform selective inhibitor. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 151-157.	2.5	26
119	Sulphonamide inhibition studies of the Î²-carbonic anhydrase from the bacterial pathogenClostridium perfringens. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 31-36.	2.5	17
120	Thermodynamic, kinetic, and structural parameterization of human carbonic anhydrase interactions toward enhanced inhibitor design. Quarterly Reviews of Biophysics, 2018, 51, e10.	2.4	35
121	Development of a high throughput yeast-based screening assay for human carbonic anhydrase isozyme II inhibitors. AMB Express, 2018, 8, 124.	1.4	11
122	Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors. Expert Opinion on Investigational Drugs, 2018, 27, 963-970.	1.9	195
123	Carbonic anhydrase inhibitors and their potential in a range of therapeutic areas. Expert Opinion on Therapeutic Patents, 2018, 28, 709-712.	2.4	138
124	Applications of carbonic anhydrases inhibitors in renal and central nervous system diseases. Expert Opinion on Therapeutic Patents, 2018, 28, 713-721.	2.4	97
125	Design of two-tail compounds with rotationally fixed benzenesulfonamide ring as inhibitors of carbonic anhydrases. European Journal of Medicinal Chemistry, 2018, 156, 61-78.	2.6	11
126	The first activation studies of the Î·-carbonic anhydrase from the malaria parasite Plasmodium falciparum with amines and amino acids. Bioorganic Chemistry, 2018, 80, 94-98.	2.0	26
127	Inhibition of Î±-, Î²-, Î³-, and Î´-carbonic anhydrases from bacteria and diatoms withNâ€²-aryl-N-hydroxy-ureas. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1194-1198.	2.5	18
128	Novel 6- and 7-Substituted Coumarins with Inhibitory Action against Lipoxygenase and Tumor-Associated Carbonic Anhydrase IX. Molecules, 2018, 23, 153.	1.7	27
129	Biomedical applications of prokaryotic carbonic anhydrases. Expert Opinion on Therapeutic Patents, 2018, 28, 745-754.	2.4	88

#	Article	IF	Citations
130	Carbonic Anhydrases and Metabolism. Metabolites, 2018, 8, 25.	1.3	164
131	Amino Acids as Building Blocks for Carbonic Anhydrase Inhibitors. Metabolites, 2018, 8, 36.	1.3	22
132	Benzamide-4-Sulfonamides Are Effective Human Carbonic Anhydrase I, II, VII, and IX Inhibitors. Metabolites, 2018, 8, 37.	1.3	19
133	Potent and Selective Carboxylic Acid Inhibitors of Tumor-Associated Carbonic Anhydrases IX and XII. Molecules, 2018, 23, 17.	1.7	14
134	1Hâ€indazole molecules reduced the activity of human erythrocytes carbonic anhydrase I and II isoenzymes. Journal of Biochemical and Molecular Toxicology, 2018, 32, e22194.	1.4	13
135	Activation studies with amines and amino acids of the Î±-carbonic anhydrase from the pathogenic protozoan Trypanosoma cruzi. Bioorganic and Medicinal Chemistry, 2018, 26, 4187-4190.	1.4	12
136	Discovery of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDsâ€“CAIs) for the Management of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2018, 61, 4961-4977.	2.9	53
137	Biophysical, Biochemical, and Cell Based Approaches Used to Decipher the Role of Carbonic Anhydrases in Cancer and to Evaluate the Potency of Targeted Inhibitors. International Journal of Medicinal Chemistry, 2018, 2018, 1-18.	2.2	4
138	Advances in the structural annotation of human carbonic anhydrases and impact on future drug discovery. Expert Opinion on Drug Discovery, 2019, 14, 1175-1197.	2.5	123
139	Carbonic anhydrase activators and their potential in the pharmaceutical field. , 2019, , 477-492.		0
140	Biotechnologic applications of carbonic anhydrases from extremophiles. , 2019, , 495-514.		0
141	The first activation study of the Î²-carbonic anhydrases from the pathogenic bacteriaBrucella suisandFrancisella tularensiswith amines and amino acids. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1178-1185.	2.5	7
142	Mechanisms of action of carbonic anhydrase inhibitors. , 2019, , 187-222.		2
143	Carbonic anhydrases. , 2019, , 3-16.		13
144	Carbonic anhydrase inhibitors for the treatment of epilepsy and obesity. , 2019, , 311-329.		5
145	Engineered Carbonic Anhydrase VI-Mimic Enzyme Switched the Structure and Affinities of Inhibitors. Scientific Reports, 2019, 9, 12710.	1.6	5
146	New organotin(IV) chlorides derived from N-(2-hydroxyphenyl)aryloxy sulfamates. Synthesis, characterization and DSC investigation. Journal of Chemical Sciences, 2019, 131, 1.	0.7	2
147	Organoruthenium(II) complexes of acetazolamide potently inhibit human carbonic anhydrase isoforms I, II, IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 388-393.	2.5	18

#	Article	IF	Citations
148	Targeting acidity in cancer and diabetes. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1871, 273-280.	3.3	70
149	Selenols: a new class of carbonic anhydrase inhibitors. Chemical Communications, 2019, 55, 648-651.	2.2	56
150	Overview of Human Carbonic Anhydrases. , 2019, , 3-14.		1
151	Carbonic anhydrases as disease markers. Expert Opinion on Therapeutic Patents, 2019, 29, 509-533.	2.4	51
152	Pain Relieving Effect of-NSAIDs-CAIs Hybrid Molecules: Systemic and Intra-Articular Treatments against Rheumatoid Arthritis. International Journal of Molecular Sciences, 2019, 20, 1923.	1.8	25
153	Thermostability enhancement of the Î±-carbonic anhydrase fromSulfurihydrogenibium yellowstonenseby using the anchoring-and-self-labelling-protein-tagsystem (ASL^{tag}). Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 946-954.	2.5	10
154	Carbonic Anhydrase Inhibitorâ€"NO Donor Hybrids and Their Pharmacological Applications. , 2019, , 229-242.		6
155	Novel 8-Substituted Coumarins That Selectively Inhibit Human Carbonic Anhydrase IX and XII. International Journal of Molecular Sciences, 2019, 20, 1208.	1.8	23
156	Carbonic anhydrases are involved in mitochondrial biogenesis and control the production of lactate by human Sertoli cells. FEBS Journal, 2019, 286, 1393-1406.	2.2	23
157	Discovery of new ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as carbonic anhydrase I, II, IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2019, 27, 1588-1594.	1.4	47
158	Inhibition of bacterial Î±-, Î²- and Î³-class carbonic anhydrases with selenazoles incorporating benzenesulfonamide moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 244-249.	2.5	17
159	Pharmaceutical and medicinal significance of sulfur (SVI)-Containing motifs for drug discovery: A critical review. European Journal of Medicinal Chemistry, 2019, 162, 679-734.	2.6	348
160	Microwaveâ€assisted synthesis of 1â€substitutedâ€1 H â€benzimidazolium salts: Nonâ€competitive inhibition of human carbonic anhydrase I and II. Archiv Der Pharmazie, 2019, 352, 1800325.	2.1	6
161	New sulfonamides containing organometallic-acylhydrazones: synthesis, characterisation and biological evaluation as inhibitors of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 451-458.	2.5	11
162	Topiramate. Profiles of Drug Substances, Excipients and Related Methodology, 2019, 44, 333-378.	3.5	19
163	Design, synthesis and biological evaluation of novel ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as potent carbonic anhydrase IX inhibitors. Bioorganic Chemistry, 2019, 82, 117-122.	2.0	44
164	Halogenated and di-substituted benzenesulfonamides as selective inhibitors of carbonic anhydrase isoforms. European Journal of Medicinal Chemistry, 2020, 185, 111825.	2.6	10
165	Direct and straightforward access to substituted alkyl selenols as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2020, 185, 111811.	2.6	28

#	Article	IF	Citations
166	Molecular docking studies, anti-Alzheimerâ€™s disease, antidiabetic, and anti-acute myeloid leukemia potentials of narcissoside. Archives of Physiology and Biochemistry, 2023, 129, 405-415.	1.0	10
167	Evaluation of some thiophene-based sulfonamides as potent inhibitors of carbonic anhydrase I and II isoenzymes isolated from human erythrocytes by kinetic and molecular modelling studies. Pharmacological Reports, 2020, 72, 1738-1748.	1.5	14
168	Synthesis, Computational Studies and Assessment of in Vitro Activity of Squalene Derivatives as Carbonic Anhydrase Inhibitors. ChemMedChem, 2020, 15, 2052-2057.	1.6	4
169	Coumarin carbonic anhydrase inhibitors from natural sources. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1462-1470.	2.5	56
170	Design, synthesis and biological evaluation of novel carbohydrate-based sulfonamide derivatives as antitumor agents. Bioorganic Chemistry, 2020, 104, 104237.	2.0	15
171	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. Metabolites, 2020, 10, 412.	1.3	116
172	Development of oxathiino[6,5-b]pyridine 2,2-dioxide derivatives as selective inhibitors of tumor-related carbonic anhydrases IX and XII. European Journal of Medicinal Chemistry, 2020, 200, 112300.	2.6	18
173	Carbonic anhydrase modulation of emotional memory. Implications for the treatment of cognitive disorders. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1206-1214.	2.5	46
174	Carbonic anhydrase from extremophiles and their potential use in biotechnological applications. , 2020, , 295-306.		1
175	An update on drug interaction considerations in the therapeutic use of carbonic anhydrase inhibitors. Expert Opinion on Drug Metabolism and Toxicology, 2020, 16, 297-307.	1.5	32
176	Exploring the multiple binding modes of inhibitors to carbonic anhydrases for novel drug discovery. Expert Opinion on Drug Discovery, 2020, 15, 671-686.	2.5	94
177	Water Soluble Coumarin Quaternary Ammonium Chlorides: Synthesis and Biological Evaluation. Chemistry and Biodiversity, 2020, 17, e2000258.	1.0	1
178	Bioorganometallic derivatives of 4-hydrazino-benzenesulphonamide as carbonic anhydrase inhibitors: synthesis, characterisation and biological evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 622-628.	2.5	9
179	New halogenated chalcones with cytotoxic and carbonic anhydrase inhibitory properties: 6â€(3â€Halogenated phenylâ€2â€propenâ€1â€oyl)â€2(3 H)â€benzoxazolones. Archiv Der Pharmazie, 2020, 353, 1900384.	2.1	8
180	Benzoxepinones: A new isoform-selective class of tumor associated carbonic anhydrase inhibitors. Bioorganic and Medicinal Chemistry, 2020, 28, 115496.	1.4	25
181	Anion inhibition studies of the Zn(II)-bound Î¹-carbonic anhydrase from the Gram-negative bacterium Burkholderia territorii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 372-376.	2.5	19
182	A Story on Carbon Dioxide and Its Hydration. , 2021, , 115-131.		0
183	Multitargeting approaches involving carbonic anhydrase inhibitors: hybrid drugs against a variety of disorders. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1702-1714.	2.5	32

#	Article	IF	Citations
184	Synthesis and in vivo evaluation of novel benzimidazoleâ€sulfonamide hybrids and Lucilia cuprina maggots' excretion/secretion topical gels for wound healing. Journal of the Chinese Chemical Society, 2021, 68, 1291-1301.	0.8	3
185	Design and synthesis of benzenesulfonamideâ€linked imidazo[2,1â€b][1,3,4]thiadiazole derivatives as carbonic anhydrase I and II inhibitors. Archiv Der Pharmazie, 2021, 354, e2100028.	2.1	7
186	Discovery of Potent Carbonic Anhydrase Inhibitors as Effective Anticonvulsant Agents: Drug Design, Synthesis, and In Vitro and In Vivo Investigations. Journal of Medicinal Chemistry, 2021, 64, 3100-3114.	2.9	17
187	Emerging role of carbonic anhydrase inhibitors. Clinical Science, 2021, 135, 1233-1249.	1.8	117
188	The Role of Sulphonamides and Nâ€Sulphonyl Ketimines/Aldimines as Directing Groups in the Field of Câ^'H Activation. Chemistry - an Asian Journal, 2021, 16, 1661-1684.	1.7	6
189	Inhibitors of CA IX Enzyme Based on Polyhedral Boron Compounds. ChemBioChem, 2021, 22, 2741-2761.	1.3	19
190	Recent Updates on the Synthesis of Bioactive Quinoxaline-Containing Sulfonamides. Applied Sciences (Switzerland), 2021, 11, 5702.	1.3	23
191	Experimental Approaches to Identify Selective Picomolar Inhibitors for Carbonic Anhydrase IX. Current Medicinal Chemistry, 2021, 28, 3361-3384.	1.2	0
192	Synthesis and biological evaluation of new pyrazolebenzene-sulphonamides as potential anticancer agents and hCA I and II inhibitors. Turkish Journal of Chemistry, 2021, 45, 528-539.	0.5	3
193	Constitutional Dynamic Inhibition/Activation of Carbonic Anhydrases. ChemPlusChem, 2021, 86, 1500-1510.	1.3	5
194	Zonisamide Therapy Reduces Metabolic Consequences and Diminishes Nonalcoholic Fatty Liver Disease in Patients with Epilepsy. Journal of Clinical Medicine, 2021, 10, 3380.	1.0	1
195	Binding site comparison for coumarin inhibitors and amine/amino acid activators of human carbonic anhydrases. European Journal of Medicinal Chemistry, 2021, 226, 113875.	2.6	15
196	Investigations on experimental, theoretical spectroscopic, electronic excitations, molecular docking of Sulfaguanidine (SG): An antibiotic drug. Chemical Physics Letters, 2021, 783, 139049.	1.2	19
197	Activation of carbonic anhydrase isoforms involved in modulation of emotional memory and cognitive disorders with histamine agonists, antagonists and derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 719-726.	2.5	21
198	Reconsidering anion inhibitors in the general context of drug design studies of modulators of activity of the classical enzyme carbonic anhydrase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 561-580.	2.5	81
199	Carbonic Anhydrases: An Overview. , 2015, , 3-13.		22
200	Inhibition of the Î²-carbonic anhydrase from the protozoan pathogen Trichomonas vaginalis with sulphonamides. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 330-335.	2.5	4
201	Synthesis, characterization and in vitro biological screening of 4-hydroxy naphthalen-1-yl, naphtho[1,2-b]furan, benzo[h]chromene and 5,6-dihydropyridazine derivatives containing sulfonamide moiety. Mediterranean Journal of Chemistry, 2018, 7, 346-358.	0.3	5

#	Article	IF	Citations
202	Experimental Carbonic Anhydrase Inhibitors for the Treatment of Hypoxic Tumors . Journal of Experimental Pharmacology, 2020, Volume 12, 603-617.	1.5	74
203	Inhibition Effect of Eosin Y on Carbonic Anhydrase (CA) I and II Isoenzymes Purified from Human Erythrocytes. Journal of the Institute of Science and Technology, 0, , 338-344.	0.3	2
204	State of the Art on Carbonic Anhydrase Modulators for Biomedical Purposes. Current Medicinal Chemistry, 2019, 26, 2558-2573.	1.2	14
205	An Update on Natural Products with Carbonic Anhydrase Inhibitory Activity. Current Pharmaceutical Design, 2016, 22, 1570-1591.	0.9	19
207	Synthesis, Characterization, and Carbonic Anhydrase Inhibitory Properties of Silver(I) Complexes of Benzimidazole Derivatives. Journal of the Turkish Chemical Society, Section A: Chemistry, 0, , 253-260.	0.4	1
208	Synthesis, characterization, and inhibitory properties of novel N-benzylbenzimidazole-silver(I) complexes on carbonic anhydrase and polyphenol oxidase enzymes. Journal of the Institute of Science and Technology, 0, , 320-327.	0.3	1
209	Topiramate exhibits anti-tumorigenic and metastatic effects in ovarian cancer cells. American Journal of Translational Research (discontinued), 2018, 10, 1663-1676.	0.0	5
210	C Vitamininin Karbonik Anhidraz Ä°zoenzimleri (hCA I ve II) Ãœzerine Etkisi. Afyon Kocatepe University Journal of Sciences and Engineering, 2021, 21, 1038-1045.	0.1	0
211	Carbonic Anhydrases as Potential Targets Against Neurovascular Unit Dysfunction in Alzheimerâ€™s Disease and Stroke. Frontiers in Aging Neuroscience, 2021, 13, 772278.	1.7	27
213	The Carbonic Anhydrases in Health and Disease. Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques, 2021, , 1-12.	0.6	0
214	In vitro and in silico interactions of antiulcer, glucocorticoids and urological drugs on human carbonic anhydrase I and II isozymes. Biopharmaceutics and Drug Disposition, 2022, 43, 47-56.	1.1	4
215	Some important inhibitors and mechanisms of rheumatoid arthritis. Chemical Biology and Drug Design, 2022, 99, 930-943.	1.5	9
216	Theoretical and Experimental Investigations of N â€•and O â€Alkylated Sulfonamides: Density Functional Theory, Hirshfeld Surface Analysis, and Molecular Docking Studies. ChemistrySelect, 2022, 7, .	0.7	0
217	Recent advances in the design and synthesis of small molecule carbonic anhydrase IX inhibitors. Current Topics in Medicinal Chemistry, 2022, 22, .	1.0	1
218	Lactic Acidosis in Patients with Solid Cancer. Antioxidants and Redox Signaling, 2022, 37, 1130-1152.	2.5	7
219	Molecular mechanisms of topiramate and its clinical value in epilepsy. Seizure: the Journal of the British Epilepsy Association, 2022, 98, 51-56.	0.9	10
220	Carbonic Anhydrase Activators for Neurodegeneration: An Overview. Molecules, 2022, 27, 2544.	1.7	17
221	New 1Hâ€indoleâ€2,3â€dione 3â€thiosemicarbazones with 3â€sulfamoylphenyl moiety as selective carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, 355, e2200023.	2.1	3

#	Article	IF	Citations
222	A Critical Review on Obesity: Herbal Approach, Bioactive Compounds, and Their Mechanism. Applied Sciences (Switzerland), 2022, 12, 8342.	1.3	9
223	Anti-obesity carbonic anhydrase inhibitors: challenges and opportunities. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 2478-2488.	2.5	26
224	Development of benzene and benzothiazole-sulfonamide analogues as selective inhibitors of the tumor-associated carbonic anhydrase IX. European Journal of Medicinal Chemistry, 2022, 243, 114793.	2.6	6
225	Structureâ€guided identification of a selective sulfonamideâ€based inhibitor targeting the human carbonic anhydrase VA isoform. Archiv Der Pharmazie, 2023, 356, .	2.1	2
226	1,2,3-Benzoxathiazine-2,2-dioxides â€“ effective inhibitors of human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2023, 38, 225-238.	2.5	13
227	Design, Synthesis and Biological Assessment of Rhodanine-Linked Benzenesulfonamide Derivatives as Selective and Potent Human Carbonic Anhydrase Inhibitors. Molecules, 2022, 27, 8028.	1.7	1
228	Mitochondrial carbonic anhydrase VA and VB: properties and roles in health and disease. Journal of Physiology, 2023, 601, 257-274.	1.3	9
229	Coumarins as Carbonic Anhydrase Inhibitors. , 2022, , 298-329.		1
230	Synthesis and Molecular Docking of New N-Acyl Hydrazones- Benzimidazole as hCA I and II Inhibitors. Medicinal Chemistry, 2023, 19, 485-494.	0.7	0
231	New isoxazolidinyl-based N -alkylethanolamines as new activators of human brain carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2023, 38, .	2.5	2
232	Derivatives of 4-methyl-1,2,3-benzoxathiazine 2,2-dioxide as selective inhibitors of human carbonic anhydrases IX and XII over the cytosolic isoforms I and II. Journal of Enzyme Inhibition and Medicinal Chemistry, 2023, 38, .	2.5	7
233	Antihistamines, phenothiazine-based antipsychotics, and tricyclic antidepressants potently activate pharmacologically relevant human carbonic anhydrase isoforms II and VII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2023, 38, .	2.5	4
234	Five-Membered Heterocyclic Sulfonamides as Carbonic Anhydrase Inhibitors. Molecules, 2023, 28, 3220.	1.7	3
239	Carbonic anhydrases. , 2024, , 139-156.		1