5-Lipoxygenase inhibitors: a review of recent developm

Expert Opinion on Therapeutic Patents
20, 355-375
DOI: 10.1517/13543771003602012

Citation Report

#	Article	IF	Citations
1	Pharmacophore identification, synthesis, and biological evaluation of carboxylated chalcone derivatives as CysLT1 antagonists. Bioorganic and Medicinal Chemistry, 2010, 18, 5519-5527.	1.4	9
2	Potent and selective 5-LO inhibitor bearing benzothiophene pharmacophore: Discovery of MK-5286. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 7440-7443.	1.0	18
3	5-Lipoxygenase Pathway. , 2011, , 73-100.		0
4	2â€(4â€(Biphenylâ€4â€ylamino)â€6â€chloropyrimidinâ€2â€ylthio)octanoic acid (HZ52) â€“ a novel type of 5â€lipoxygenase inhibitor with favourable molecular pharmacology and efficacy in vivo. British Journal of Pharmacology, 2011, 164, 781-793.	2.7	6
5	Cyclooxygenases and lipoxygenases in cancer. Cancer and Metastasis Reviews, 2011, 30, 277-294.	2.7	138
6	Identification of 2-mercaptohexanoic acids as dual inhibitors of 5-lipoxygenase and microsomal prostaglandin E2 synthase-1. Bioorganic and Medicinal Chemistry, 2011, 19, 3394-3401.	1.4	18
7	Potent Inhibitors of 5â€Lipoxygenase Identified using Pseudoreceptors. ChemMedChem, 2011, 6, 1001-1005.	1.6	11
8	Curcumin analogues as possible anti-proliferative & anti-inflammatory agents. European Journal of Medicinal Chemistry, 2011, 46, 2722-2735.	2.6	80
9	Regulation of Taurine Transport Systems by Protein Kinase CK2 in Mammalian Cells. Cellular Physiology and Biochemistry, 2011, 28, 1099-1110.	1.1	25
10	Cinnamyl-3,4-Dihydroxy-Î±-Cyanocinnamate Is a Potent Inhibitor of 5-Lipoxygenase. Journal of Pharmacology and Experimental Therapeutics, 2011, 338, 205-213.	1.3	28
11	Target Identification and Validation of (+)-2-(1-Hydroxyl-4-Oxocyclohexyl) Ethyl Caffeate, an Anti-Inflammatory Natural Product. European Journal of Inflammation, 2012, 10, 297-309.	0.2	8
12	Dynamic Modeling of Human 5-Lipoxygenaseâ€“Inhibitor Interactions Helps To Discover Novel Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 2597-2605.	2.9	56
13	Anacardic acid derived salicylates are inhibitors or activators of lipoxygenases. Bioorganic and Medicinal Chemistry, 2012, 20, 5027-5032.	1.4	22
14	Design and synthesis of a second series of triazole-based compounds as potent dual mPGES-1 and 5-lipoxygenase inhibitors. European Journal of Medicinal Chemistry, 2012, 54, 311-323.	2.6	40
15	Î±-Aryl-N-alkyl Nitrones, as Potential Agents for Stroke Treatment: Synthesis, Theoretical Calculations, Antioxidant, Anti-inflammatory, Neuroprotective, and Brainâ€“Blood Barrier Permeability Properties. Journal of Medicinal Chemistry, 2012, 55, 153-168.	2.9	59
16	Leukotriene A4 Hydrolase: Biology, Inhibitors and Clinical Applications. RSC Drug Discovery Series, 2012, , 58-103.	0.2	3
17	From Molecular Docking to 3Dâ€Quantitative Structureâ€Activity Relationships (3Dâ€QSAR): Insights into the Binding Mode of 5â€Lipoxygenase Inhibitors. Molecular Informatics, 2012, 31, 123-134.	1.4	11
18	5-Lipoxygenase inhibitors: a patent evaluation (WO2011161615). Expert Opinion on Therapeutic Patents, 2012, 22, 843-846.	2.4	0

#	Article	IF	Citations
19	Citreorosein inhibits degranulation and leukotriene C4 generation through suppression of Syk pathway in mast cells. Molecular and Cellular Biochemistry, 2012, 365, 333-341.	1.4	12
20	On the inhibition of 5â€lipoxygenase product formation by tryptanthrin: mechanistic studies and efficacy in vivo. British Journal of Pharmacology, 2012, 165, 765-776.	2.7	40
21	Molecular characterization of EP6â€"A novel imidazo[1,2-a]pyridine based direct 5-lipoxygenase inhibitor. Biochemical Pharmacology, 2012, 83, 228-240.	2.0	25
22	The protective effect of nordihydroguaiaretic acid on cerebral ischemia/reperfusion injury is mediated by the JNK pathway. Brain Research, 2012, 1445, 73-81.	1.1	34
23	Synthesis of some quinolinyl chalcone analogues and investigation of their anticancer and synergistic anticancer effect with doxorubicin. Russian Journal of Bioorganic Chemistry, 2012, 38, 428-434.	0.3	4
24	Discovery and biological evaluation of novel 1,4-benzoquinone and related resorcinol derivatives that inhibit 5-lipoxygenase. European Journal of Medicinal Chemistry, 2013, 67, 269-279.	2.6	37
25	Potent inhibition of human 5-lipoxygenase and microsomal prostaglandin E2 synthase-1 by the anti-carcinogenic and anti-inflammatory agent embelin. Biochemical Pharmacology, 2013, 86, 476-486.	2.0	79
26	Hydroxamic Acids. , 2013, , .		30
27	Direct access to pyrazolo(benzo)thienoquinolines. Highly effective palladium catalysts for the intramolecular Câ€"H heteroarylation of arenes. Chemical Communications, 2013, 49, 1413.	2.2	19
28	Pseudoperoxidase investigations of hydroperoxides and inhibitors with human lipoxygenases. Bioorganic and Medicinal Chemistry, 2013, 21, 3894-3899.	1.4	13
29	Synthesis and Structureâ€"Activity Relationship Studies of Novel Dual Inhibitors of Soluble Epoxide Hydrolase and 5-Lipoxygenase. Journal of Medicinal Chemistry, 2013, 56, 1777-1781.	2.9	31
30	5-Lipoxygenase inhibitors: a review of recent patents (2010 â€" 2012). Expert Opinion on Therapeutic Patents, 2013, 23, 895-909.	2.4	34
31	Structureâ€"activity relationship andin vitropharmacological evaluation of imidazo[1,2-a]pyridine-based inhibitors of 5-LO. Future Medicinal Chemistry, 2013, 5, 865-880.	1.1	5
32	Volume-sensitive release of organic osmolytes in the human lung epithelial cell line A549: role of the 5-lipoxygenase. American Journal of Physiology - Cell Physiology, 2013, 305, C48-C60.	2.1	24
33	Cancer-Produced Metabolites of 5-Lipoxygenase Induce Tumor-Evoked Regulatory B Cells via Peroxisome Proliferatorâ€"Activated Receptor Î±. Journal of Immunology, 2013, 190, 2575-2584.	0.4	84
34	Clicked Cinnamic/Caffeic Esters and Amides as Radical Scavengers and 5-Lipoxygenase Inhibitors. International Journal of Medicinal Chemistry, 2014, 2014, 1-12.	2.2	6
35	Inflammation, Cancer and Oxidative Lipoxygenase Activity are Intimately Linked. Cancers, 2014, 6, 1500-1521.	1.7	124
36	Caulerpenyne and Related Bisâ€enol Esters Are Novelâ€Type Inhibitors of Human 5â€Lipoxygenase. ChemMedChem, 2014, 9, 1655-1659.	1.6	6

#	Article	IF	Citations
37	Detection of mammalian 5â€lipoxygenase activity using the fluorescent probe dihydrorhodamine 123. European Journal of Lipid Science and Technology, 2014, 116, 119-125.	1.0	1
38	The novel benzimidazole derivative <scp>BRP</scp>â€7 inhibits leukotriene biosynthesis in vitro and in vivo by targeting 5â€lipoxygenaseâ€activating protein (<scp>FLAP</scp>). British Journal of Pharmacology, 2014, 171, 3051-3064.	2.7	36
39	Targeting leukotriene B₄in inflammation. Expert Opinion on Therapeutic Targets, 2014, 18, 79-93.	1.5	34
40	Elucidation of the molecular mechanism and the efficacy in vivo of a novel 1,4â€benzoquinone that inhibits 5â€lipoxygenase. British Journal of Pharmacology, 2014, 171, 2399-2412.	2.7	26
41	Inhibitors of the Arachidonic Acid Cascade: Interfering with Multiple Pathways. Basic and Clinical Pharmacology and Toxicology, 2014, 114, 83-91.	1.2	104
42	Inhibition of 5-lipoxygenase as anti-inflammatory mode of action of Plectranthus zeylanicus Benth and chemical characterization of ingredients by a mass spectrometric approach. Journal of Ethnopharmacology, 2014, 151, 800-809.	2.0	15
43	Human cytomegalovirus infection induces leukotriene B4 and 5-lipoxygenase expression in human placentae and umbilical vein endothelial cells. Placenta, 2014, 35, 345-350.	0.7	20
44	Novel lipid signaling pathways in Alzheimer's disease pathogenesis. Biochemical Pharmacology, 2014, 88, 560-564.	2.0	33
45	Analysis of 5â€lipoxygenase phosphorylation on molecular level by <scp>MALDI</scp>â€<scp>MS</scp>. FEBS Journal, 2014, 281, 1931-1947.	2.2	17
46	Development of 3,5-dinitrobenzoate-based 5-lipoxygenase inhibitors. Bioorganic and Medicinal Chemistry, 2014, 22, 2396-2402.	1.4	9
47	Munronia pinnata (Wall.) Theob.: Unveiling phytochemistry and dual inhibition of 5-lipoxygenase and microsomal prostaglandin E2 synthase (mPGES)-1. Journal of Ethnopharmacology, 2014, 151, 882-890.	2.0	7
48	Further studies on ethyl 5-hydroxy-indole-3-carboxylate scaffold: Design, synthesis and evaluation of 2-phenylthiomethyl-indole derivatives as efficient inhibitors of human 5-lipoxygenase. European Journal of Medicinal Chemistry, 2014, 81, 492-498.	2.6	21
49	One-Step Semisynthesis of Oleacein and the Determination as a 5-Lipoxygenase Inhibitor. Journal of Natural Products, 2014, 77, 441-445.	1.5	60
50	Lead modification: Amino acid appended indoles as highly effective 5-LOX inhibitors. Bioorganic and Medicinal Chemistry, 2014, 22, 1642-1648.	1.4	17
51	Indirubin Core Structure of Glycogen Synthase Kinase-3 Inhibitors as Novel Chemotype for Intervention with 5-Lipoxygenase. Journal of Medicinal Chemistry, 2014, 57, 3715-3723.	2.9	37
52	Inhibitors of the 5-lipoxygenase arachidonic acid pathway induce ATP release and ATP-dependent organic cation transport in macrophages. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1967-1977.	1.4	8
53	Benzo[d]isothiazole 1,1-dioxide derivatives as dual functional inhibitors of 5-lipoxygenase and microsomal prostaglandin E2 synthase-1. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2764-2767.	1.0	31
54	Effects of Echium plantagineum L. Bee Pollen on Basophil Degranulation: Relationship with Metabolic Profile. Molecules, 2014, 19, 10635-10649.	1.7	18

#	Article	IF	Citations
55	Extraction, fractionation and assessment of antioxidant activities of active components of Aframomum sceptrum seeds. African Journal of Biochemistry Research, 2015, 9, 117-123.	0.2	3
56	Osthole: A Review on Its Bioactivities, Pharmacological Properties, and Potential as Alternative Medicine. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-10.	0.5	120
57	Physiological role of taurine â€“ from organism to organelle. Acta Physiologica, 2015, 213, 191-212.	1.8	248
58	Identification of 12/15-Lipoxygenase as a Regulator of Axon Degeneration through High-Content Screening. Journal of Neuroscience, 2015, 35, 2927-2941.	1.7	13
59	Novel series of benzoquinones with high potency against 5-lipoxygenase in human polymorphonuclear leukocytes. European Journal of Medicinal Chemistry, 2015, 94, 132-139.	2.6	36
60	Progesterone rapidly down-regulates the biosynthesis of 5-lipoxygenase products in human primary monocytes. Pharmacological Research, 2015, 94, 42-50.	3.1	12
61	Identification of the Substrate Access Portal of 5-Lipoxygenase. Biochemistry, 2015, 54, 6333-6342.	1.2	30
62	5-Lipoxygenase inhibitors suppress RANKL-induced osteoclast formation via NFATc1 expression. Bioorganic and Medicinal Chemistry, 2015, 23, 7069-7078.	1.4	17
63	Betulinic acid derived hydroxamates and betulin derived carbamates are interesting scaffolds for the synthesis of novel cytotoxic compounds. European Journal of Medicinal Chemistry, 2015, 106, 194-210.	2.6	38
64	The 5-lipoxygenase inhibitor RF-22c potently suppresses leukotriene biosynthesis in cellulo and blocks bronchoconstriction and inflammation in vivo. Biochemical Pharmacology, 2016, 112, 60-71.	2.0	25
65	Analgesic potential of standardized methanol stem bark extract of Ficus platyphylla in mice: Mechanisms of action. Journal of Ethnopharmacology, 2016, 184, 101-106.	2.0	11
66	2-Arylbenzo[b]furan derivatives as potent human lipoxygenase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 98-105.	2.5	13
67	BRP-187: A potent inhibitor of leukotriene biosynthesis that acts through impeding the dynamic 5-lipoxygenase/5-lipoxygenase-activating protein (FLAP) complex assembly. Biochemical Pharmacology, 2016, 119, 17-26.	2.0	36
68	A potent and selective inhibitor targeting human and murine 12/15-LOX. Bioorganic and Medicinal Chemistry, 2016, 24, 1183-1190.	1.4	15
69	2-Amino-4-aryl thiazole: a promising scaffold identified as a potent 5-LOX inhibitor. RSC Advances, 2016, 6, 19271-19279.	1.7	16
70	Predictive Bioinformatic Assignment of Methyl-Bearing Stereocenters, Total Synthesis, and an Additional Molecular Target of Ajudazol B. Journal of Organic Chemistry, 2016, 81, 1333-1357.	1.7	18
71	LOX1 inhibition with small molecules. Journal of Molecular Graphics and Modelling, 2016, 63, 99-109.	1.3	2
72	Synthesis and biological evaluation of novel 5-hydroxylaminoisoxazole derivatives as lipoxygenase inhibitors and metabolism enhancing agents. Bioorganic and Medicinal Chemistry, 2016, 24, 712-720.	1.4	19

#	Article	IF	Citations
73	Regulation of tumorigenic Wnt signaling by cyclooxygenase-2, 5-lipoxygenase and their pharmacological inhibitors: A basis for novel drugs targeting cancer cells?. , 2016, 157, 43-64.		36
74	Myrica rubra leaves as a potential source of a dual 5-LOX/COX inhibitor. Food and Agricultural Immunology, 2017, 28, 343-353.	0.7	15
75	Evaluation of Dual 5-Lipoxygenase/Microsomal Prostaglandin E2 Synthase-1 Inhibitory Effect of Natural and Synthetic Acronychia-Type Isoprenylated Acetophenones. Journal of Natural Products, 2017, 80, 699-706.	1.5	10
76	Synthesis of heterocycles from arylacetonitriles: Powerful tools for medicinal chemists. Tetrahedron Letters, 2017, 58, 2629-2635.	0.7	18
77	Novel leukotriene biosynthesis inhibitors (2012-2016) as anti-inflammatory agents. Expert Opinion on Therapeutic Patents, 2017, 27, 607-620.	2.4	36
78	Biosynthesis of leukotriene B4. Seminars in Immunology, 2017, 33, 3-15.	2.7	59
79	Michael acceptor containing drugs are a novel class of 5-lipoxygenase inhibitor targeting the surface cysteines C416 and C418. Biochemical Pharmacology, 2017, 125, 55-74.	2.0	18
80	A new glycosidic antioxidant from Ranunculus muricatus L. (Ranunculaceae) exhibited lipoxygenasae and xanthine oxidase inhibition properties. Natural Product Research, 2017, 31, 1251-1257.	1.0	24
81	Structureâ€“activity relationship of caffeic acid phenethyl ester analogs as new 5â€lipoxygenase inhibitors. Chemical Biology and Drug Design, 2017, 89, 514-528.	1.5	24
82	New Caffeic Acid Phenylethyl Ester Analogs Bearing Substituted Triazole: Synthesis and Structure-Activity Relationship Study towards 5-Lipoxygenase Inhibition. Journal of Chemistry, 2017, 2017, 1-11.	0.9	1
83	Alleviating Promotion of Inflammation and Cancer Induced by Nonsteroidal Anti-Inflammatory Drugs. International Journal of Inflammation, 2017, 2017, 1-17.	0.9	5
84	Synthesis of novel derivatives of chromenone bearing an N-carbamothioyl moiety as soybean 15-LOX inhibitors. Turkish Journal of Chemistry, 2017, 41, 335-344.	0.5	1
85	New Hydroxycinnamic Acid Esters as Novel 5-Lipoxygenase Inhibitors That Affect Leukotriene Biosynthesis. Mediators of Inflammation, 2017, 2017, 1-12.	1.4	17
86	Substituted Caffeic and Ferulic Acid Phenethyl Esters: Synthesis, Leukotrienes Biosynthesis Inhibition, and Cytotoxic Activity. Molecules, 2017, 22, 1124.	1.7	15
87	Computational Analysis of LOX1 Inhibition Identifies Descriptors Responsible for Binding Selectivity. ACS Omega, 2018, 3, 2261-2272.	1.6	3
88	Natural products as inhibitors of prostaglandin E2 and pro-inflammatory 5-lipoxygenase-derived lipid mediator biosynthesis. Biotechnology Advances, 2018, 36, 1709-1723.	6.0	47
89	Insights into biological activity of ureidoamides with primaquine and amino acid moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 376-382.	2.5	10
90	Lipophilic extracts of Leucas zeylanica, a multi-purpose medicinal plant in the tropics, inhibit key enzymes involved in inflammation and gout. Journal of Ethnopharmacology, 2018, 224, 474-481.	2.0	23

#	Article	IF	Citations
91	Drug-Mediated Intracellular Donation of Nitric Oxide Potently Inhibits 5-Lipoxygenase: A Possible Key to Future Antileukotriene Therapy. Antioxidants and Redox Signaling, 2018, 28, 1265-1285.	2.5	3
92	Drug discovery effectiveness from the standpoint of therapeutic mechanisms and indications. Nature Reviews Drug Discovery, 2018, 17, 19-33.	21.5	106
93	Recent advances in the search for novel 5-lipoxygenase inhibitors for the treatment of asthma. European Journal of Medicinal Chemistry, 2018, 153, 65-72.	2.6	64
94	Current Disease-Targets for Oleocanthal as Promising Natural Therapeutic Agent. International Journal of Molecular Sciences, 2018, 19, 2899.	1.8	22
95	Design, synthesis and identification of novel substituted 2-amino thiazole analogues as potential anti-inflammatory agents targeting 5-lipoxygenase. European Journal of Medicinal Chemistry, 2018, 158, 34-50.	2.6	50
96	Synthesis, evaluation and docking studies of some 4-thiazolone derivatives as effective lipoxygenase inhibitors. Chemical Papers, 2018, 72, 2769-2783.	1.0	5
97	Sinapic acid phenethyl ester as a potent selective 5â€lipoxygenase inhibitor: Synthesis and structureâ€“activity relationship. Chemical Biology and Drug Design, 2018, 92, 1876-1887.	1.5	9
98	Arbidol: a quarter-century after. Past, present and future of the original Russian antiviral. Russian Chemical Reviews, 2018, 87, 509-552.	2.5	12
99	The Biological Activities of Oleocanthal from a Molecular Perspective. Nutrients, 2018, 10, 570.	1.7	77
100	Neurogenic and neuroprotective donepezil-flavonoid hybrids with sigma-1 affinity and inhibition of key enzymes in Alzheimer's disease. European Journal of Medicinal Chemistry, 2018, 156, 534-553.	2.6	38
101	S-Enantiomer of 19-Hydroxyeicosatetraenoic Acid Preferentially Protects Against Angiotensin II-Induced Cardiac Hypertrophy. Drug Metabolism and Disposition, 2018, 46, 1157-1168.	1.7	28
102	A Hydroquinone-Based Derivative Elicits Apoptosis and Autophagy via Activating a ROS-Dependent Unfolded Protein Response in Human Glioblastoma. International Journal of Molecular Sciences, 2019, 20, 3836.	1.8	9
103	Long-Lasting Anti-Inflammatory and Antinociceptive Effects of Acute Ammonium Glycyrrhizinate Administration: Pharmacological, Biochemical, and Docking Studies. Molecules, 2019, 24, 2453.	1.7	26
104	5-Lipoxygenase as a drug target: A review on trends in inhibitors structural design, SAR and mechanism based approach. Bioorganic and Medicinal Chemistry, 2019, 27, 3745-3759.	1.4	55
105	Synthesis of diarylidenecyclohexanone derivatives as potential anti-inflammatory leads against COX-2/mPGES1 and 5-LOX. New Journal of Chemistry, 2019, 43, 9012-9020.	1.4	11
106	In Vitro Evaluation and Docking Studies of 5-oxo-5H-furo[3,2-g]chromene-6-carbaldehyde Derivatives as Potential Anti-Alzheimerâ€™s Agents. International Journal of Molecular Sciences, 2019, 20, 5451.	1.8	9
107	Exploring Biological Activity of 4-Oxo-4H-furo[2,3-h]chromene Derivatives as Potential Multi-Target-Directed Ligands Inhibiting Cholinesterases, Î²-Secretase, Cyclooxygenase-2, and Lipoxygenase-5/15. Biomolecules, 2019, 9, 736.	1.8	12
108	Targeting Metalloenzymes for Therapeutic Intervention. Chemical Reviews, 2019, 119, 1323-1455.	23.0	181

#	Article	IF	Citations
109	Design, synthesis and identification of novel coumaperine derivatives for inhibition of human 5-LOX: Antioxidant, pseudoperoxidase and docking studies. Bioorganic and Medicinal Chemistry, 2019, 27, 604-619.	1.4	16
110	Pharmacodynamics simulation of HOEC by a computational model of arachidonic acid metabolic network. Quantitative Biology, 2019, 7, 30-41.	0.3	1
111	Identification of Peracetylated Quercetin as a Selective 12-Lipoxygenase Pathway Inhibitor in Human Platelets. Molecular Pharmacology, 2019, 95, 139-150.	1.0	11
112	4-(4-Chlorophenyl)thiazol-2-amines as pioneers of potential neurodegenerative therapeutics with anti-inflammatory properties based on dual DNase I and 5-LO inhibition. Bioorganic Chemistry, 2020, 95, 103528.	2.0	13
113	Avenanthramides as lipoxygenase inhibitors. Heliyon, 2020, 6, e04304.	1.4	14
114	Cannflavins â€“ From plant to patient: A scoping review. FÃ¬toterapÃ¬Ã¢, 2020, 146, 104712.	1.1	21
115	Synthesis, inhibitory activity and in silico docking of dual COX/5-LOX inhibitors with quinone and resorcinol core. European Journal of Medicinal Chemistry, 2020, 204, 112620.	2.6	11
116	Advances in Computational and Bio-Engineering. Learning and Analytics in Intelligent Systems, 2020, , .	0.5	1
117	Synthesis and structure-activity relationships of novel 5-(hydroxamic acid)methyl oxazolidinone derivatives as 5-lipoxygenase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1471-1482.	2.5	7
118	Predicting multi-enzyme inhibition in the arachidonic acid metabolic network by Heritiera fomes extracts. Journal of Biomolecular Structure and Dynamics, 2020, , 1-14.	2.0	1
119	Stomopneulactone D from long-spined sea urchin Stomopneustes variolaris: Anti-inflammatory macrocylic lactone attenuates cyclooxygenase-2 expression in lipopolysaccharide-activated macrophages. Bioorganic Chemistry, 2020, 103, 104140.	2.0	10
120	A cheminformatic study on chemical space characterization and diversity analysis of 5-LOX inhibitors. Journal of Molecular Graphics and Modelling, 2020, 100, 107699.	1.3	1
121	Pharmacological activities of Hermannol (9-(7-methyloctyl)-9H-xanthene-2,3-diol), a new Xanthene derivative isolated from the roots ofÂ Hermannia geniculata Eckl. & Zeyh.. South African Journal of Botany, 2020, 135, 330-335.	1.2	2
122	Muricazine, a new hydrazine derivative from Ranunculus muricatus L. with antioxidant, lipoxygenase and urease inhibitory activities. Natural Product Research, 2020, , 1-6.	1.0	1
123	Structure-based design, semi-synthesis and anti-inflammatory activity of tocotrienolic amides as 5-lipoxygenase inhibitors. European Journal of Medicinal Chemistry, 2020, 202, 112518.	2.6	9
124	Design, Synthesis and Biological Evaluation of Ferrocenyl Thiazole and Thiazolo[5,4-d]thiazole Catechols as Inhibitors of 5-hLOX and as Antibacterials against Staphylococcus aureus. Structural Relationship and Computational Studies. Organometallics, 2020, 39, 2672-2681.	1.1	7
125	Red-kerneled rice proanthocyanidin inhibits arachidonate 5-lipoxygenase and decreases psoriasis-like skin inflammation. Archives of Biochemistry and Biophysics, 2020, 689, 108307.	1.4	13
126	An overview of lipoxygenase inhibitors with approach of in vivo studies. Prostaglandins and Other Lipid Mediators, 2020, 148, 106411.	1.0	19

#	Article	IF	Citations
127	Systems pharmacology and molecular docking strategies prioritize natural molecules as antiinflammatory agents. , 2021, , 283-319.		1
128	Lipoxygenase Inhibitors as Cancer Chemopreventives: Discovery, Recent Developments and Future Perspectives. Current Medicinal Chemistry, 2021, 28, 1143-1175.	1.2	14
129	Mechanistic insight on the role of leukotriene receptors in ischemicâ€“reperfusion injury. Pharmacological Reports, 2021, 73, 1240-1254.	1.5	33
130	From Vietnamese plants to a biflavonoid that relieves inflammation by triggering the lipid mediator class switch to resolution. Acta Pharmaceutica Sinica B, 2021, 11, 1629-1647.	5.7	7
131	Functionalized Homologues and Positional Isomers of Rabbit 15-Lipoxygenase RS75091 Inhibitor. Medicinal Chemistry, 2021, 17, .	0.7	1
132	Caffeic Acid Phenethyl Ester and Its Amide Analogue Are Potent Inhibitors of Leukotriene Biosynthesis in Human Polymorphonuclear Leukocytes. PLoS ONE, 2012, 7, e31833.	1.1	58
133	Discovery of a Novel Dual Fungal CYP51/Human 5-Lipoxygenase Inhibitor: Implications for Anti-Fungal Therapy. PLoS ONE, 2013, 8, e65928.	1.1	17
134	A Fluorescence-Based Assay for Measuring the Redox Potential of 5-Lipoxygenase Inhibitors. PLoS ONE, 2014, 9, e87708.	1.1	2
136	Hydroxamates as Ribonucleotide Reductase Inhibitors. , 2013, , 153-172.		0
138	Cis-parinaric Acid: A Non-redox Inhibitor of Lipoxygenase-1. Asian Journal of Biochemistry, 2017, 12, 27-35.	0.5	0
139	Towards a systematic analysis of structure-activity relationships of 5-LOX inhibitors through activity landscape and chemotype enrichment. Chemometrics and Intelligent Laboratory Systems, 2020, 207, 104188.	1.8	0
140	In Silico, In Vitro and In Vivo Anti-inflammatory and Analgesic Activity of Usnic Acid. Learning and Analytics in Intelligent Systems, 2020, , 249-261.	0.5	0
141	Multi-omic analysis of selectively vulnerable motor neuron subtypes implicates altered lipid metabolism in ALS. Nature Neuroscience, 2021, 24, 1673-1685.	7.1	38
142	In Silico, In Vitro, and In Vivo Analysis of Tanshinone IIA and Cryptotanshinone from Salvia miltiorrhiza as Modulators of Cyclooxygenase-2/mPGES-1/Endothelial Prostaglandin EP3 Pathway. Biomolecules, 2022, 12, 99.	1.8	2
143	Design and Synthesis of Functionalized4-Aryl-Catechol Derivatives as New Anti-Inflammatory Agents with In Vivo Efficacy PART I. SSRN Electronic Journal, 0, , .	0.4	1
144	Caffeic acid phenethyl ester: a potential anticancer bioactive constituent of propolis.. Current Cancer Therapy Reviews, 2022, 18, .	0.2	0
145	Synthesis of a Pyridone-Based Phthalimide Fleximer and Its Characterization and Supramolecular Property Evaluation. ACS Omega, 2022, 7, 24485-24497.	1.6	4
146	Design and synthesis of functionalized 4-aryl-Catechol derivatives as new antiinflammtory agents with in vivo efficacy. European Journal of Medicinal Chemistry, 2022, 243, 114788.	2.6	0

#	Article	IF	Citations
147	Deciphering lipid dysregulation in ALS: from mechanisms to translational medicine. Translational Neurodegeneration, 2022, 11, .	3.6	10
148	Identification of Novel 5-Lipoxygenase-Activating Protein (FLAP) Inhibitors by an Integrated Method of Pharmacophore Virtual Screening, Docking, QSAR and ADMET Analyses. Journal of Computational Biophysics and Chemistry, 0, , 1-21.	1.0	2
149	In Vitro Cytostatic Effect on Tumor Cells by Carboraneâ€based Dual Cyclooxygenaseâ€2 and 5â€Lipoxygenase Inhibitors. Advanced Therapeutics, 0, , 2200252.	1.6	3
150	An Overview on Sources, Biosynthesis and Bioactivities of Osthole: A Potential Bioactive Compound. Current Bioactive Compounds, 2023, 19, .	0.2	0
151	Synthesis, Evaluation of Enzyme Inhibition and Redox Properties of Potential Dual COX-2 and 5-LOX Inhibitors. Pharmaceuticals, 2023, 16, 549.	1.7	1