

Urease inhibitors as potential drugs for gastric and urinary  
review

Expert Opinion on Therapeutic Patents

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Alternative therapies for <i>Helicobacter pylori</i> : probiotics and phytomedicine. <i>FEMS Immunology and Medical Microbiology</i> , 2011, 63, 153-164.	2.7	88
2	Remarkable Potential of the $\hat{\pm}$ -Aminophosphonate/Phosphinate Structural Motif in Medicinal Chemistry. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5955-5980.	2.9	529
3	Large scale screening of commonly used Iranian traditional medicinal plants against urease activity. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2012, 20, 72.	0.9	51
4	Molecular Docking, Kinetics Study, and Structure-Activity Relationship Analysis of Quercetin and Its Analogous as <i>Helicobacter pylori</i> Urease Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 10572-10577.	2.4	67
5	Temperature- and pressure-dependent stopped-flow kinetic studies of jack bean urease. Implications for the catalytic mechanism. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 1123-1134.	1.1	56
6	N-substituted aminomethanephosphonic and aminomethane-P-methylphosphinic acids as inhibitors of ureases. <i>Amino Acids</i> , 2012, 42, 1937-1945.	1.2	38
7	Hydroxamic Acids: An Important Class of Metalloenzyme Inhibitors. , 2013, , 683-708.		7
8	The crystal structure of <i>Sporosarcina pasteurii</i> urease in a complex with citrate provides new hints for inhibitor design. <i>Journal of Biological Inorganic Chemistry</i> , 2013, 18, 391-399.	1.1	49
9	Synthesis, molecular docking and kinetic properties of $\hat{2}$ -hydroxy- $\hat{2}$ -phenylpropionyl-hydroxamic acids as <i>Helicobacter pylori</i> urease inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2013, 68, 212-221.	2.6	75
10	Synthesis and biological evaluation of novel series of aminopyrimidine derivatives as urease inhibitors and antimicrobial agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 1316-1323.	2.5	11
11	Fluorimetric urease inhibition assay on a multilayer microfluidic chip with immunoaffinity immobilized enzyme reactors. <i>Analytical Biochemistry</i> , 2013, 441, 51-57.	1.1	8
12	Structurally Diversified Heterocycles and Related Privileged Scaffolds as Potential Urease Inhibitors: A Brief Overview. <i>Archiv Der Pharmazie</i> , 2013, 346, 423-446.	2.1	75
13	Transition State Analogues of Enzymatic Reaction as Potential Drugs. , 2013, , .		7
14	Inhibition of urease activity in the urinary tract pathogen <i>Staphylococcus saprophyticus</i> . <i>Letters in Applied Microbiology</i> , 2014, 58, 31-41.	1.0	42
15	Fluoride inhibition of <i>Sporosarcina pasteurii</i> urease: structure and thermodynamics. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 1243-1261.	1.1	58
16	Nonredox Nickel Enzymes. <i>Chemical Reviews</i> , 2014, 114, 4206-4228.	23.0	235
17	Design and synthesis of new barbituric- and thiobarbituric acid derivatives as potent urease inhibitors: Structure activity relationship and molecular modeling studies. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 6049-6058.	1.4	53
18	Biological evaluation and molecular docking of baicalin and scutellarin as <i>Helicobacter pylori</i> urease inhibitors. <i>Journal of Ethnopharmacology</i> , 2015, 162, 69-78.	2.0	54

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19	Synthesis, biological evaluation and molecular docking of N-phenyl thiosemicarbazones as urease inhibitors. <i>Bioorganic Chemistry</i> , 2015, 61, 51-57.	2.0	65
20	Synthesis and evaluation of N-analogs of 1,2-diarylethane as <i>Helicobacter pylori</i> urease inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4508-4513.	1.4	17
21	Urinary tract infections: epidemiology, mechanisms of infection and treatment options. <i>Nature Reviews Microbiology</i> , 2015, 13, 269-284.	13.6	2,406
22	Conformational Change Results in Loss of Enzymatic Activity of Jack Bean Urease on Its Interaction with Silver Nanoparticle. <i>Protein Journal</i> , 2015, 34, 329-337.	0.7	25
23	Bis(aminomethyl)phosphinic Acid, a Highly Promising Scaffold for the Development of Bacterial Urease Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 146-150.	1.3	31
24	2-(Hetero(aryl)methylene)hydrazine-1-carbothioamides as Potent Urease Inhibitors. <i>Chemical Biology and Drug Design</i> , 2015, 85, 225-230.	1.5	26
25	Plant-Derived Urease Inhibitors as Alternative Chemotherapeutic Agents. <i>Archiv Der Pharmazie</i> , 2016, 349, 507-522.	2.1	53
26	Surface plasmon resonance and isothermal titration calorimetry to monitor the Ni(II)-dependent binding of <i>Helicobacter pylori</i> NikR to DNA. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7971-7980.	1.9	14
27	Solution-phase microwave assisted parallel synthesis, biological evaluation and in silico docking studies of N,N <sup>2</sup> -disubstituted thioureas derived from 3-chlorobenzoic acid. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 4452-4463.	1.4	31
28	1,2-Benzisoxenazol-3(2 <i>H</i> )-one Derivatives As a New Class of Bacterial Urease Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 8125-8133.	2.9	82
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30	Coumarin-based thiosemicarbazones as potent urease inhibitors: synthesis, solid state self-assembly and molecular docking. <i>RSC Advances</i> , 2016, 6, 63886-63894.	1.7	30
31	( $\alpha^{\sim}$ )-Patchouli alcohol protects against <i>Helicobacter pylori</i> urease-induced apoptosis, oxidative stress and inflammatory response in human gastric epithelial cells. <i>International Immunopharmacology</i> , 2016, 35, 43-52.	1.7	41
32	Thermodynamic study of competitive inhibitors <sup>TM</sup> binding to urease. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 2427-2439.	2.0	16
33	Kinetic and structural studies reveal a unique binding mode of sulfite to the nickel center in urease. <i>Journal of Inorganic Biochemistry</i> , 2016, 154, 42-49.	1.5	42
34	Epiberberine, a natural protoberberine alkaloid, inhibits urease of <i>Helicobacter pylori</i> and jack bean: Susceptibility and mechanism. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 110, 77-86.	1.9	56
35	Potent covalent inhibitors of bacterial urease identified by activity-reactivity profiling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 1346-1350.	1.0	17
36	Novel organophosphorus scaffolds of urease inhibitors obtained by substitution of Morita-Baylis-Hillman adducts with phosphorus nucleophiles. <i>European Journal of Medicinal Chemistry</i> , 2017, 133, 107-120.	2.6	16

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37	An expedient synthesis of <i>N</i> -(5-mercapto-4-(substituted)thiazol-2-yl)ethan-1-amine hydrochloride (benzylidene) free radical scavengers: Kinetic mechanism and molecular docking studies. <i>Chemical Biology and Drug Design</i> , 2017, 90, 764-777.	1.5	20
38	Luminescent Lanthanide Cyclen-Based Enzymatic Assay Capable of Diagnosing the Onset of Catheter-Associated Urinary Tract Infections Both in Solution and within Polymeric Hydrogels. <i>Journal of the American Chemical Society</i> , 2017, 139, 381-388.	6.6	72
39	Syntheses of 4,6-dihydropyrimidine diones, their urease inhibition, in vitro, in silico, and kinetic studies. <i>Bioorganic Chemistry</i> , 2017, 75, 317-331.	2.0	12
40	Studies on new urease inhibitors by using biochemical, STD-NMR spectroscopy, and molecular docking methods. <i>Medicinal Chemistry Research</i> , 2017, 26, 2452-2467.	1.1	7
41	Design, synthesis, molecular docking, anti- <i>Proteus mirabilis</i> and urease inhibition of new fluoroquinolone carboxylic acid derivatives. <i>Bioorganic Chemistry</i> , 2017, 70, 1-11.	2.0	37
42	Inactivation of urease by catechol: Kinetics and structure. <i>Journal of Inorganic Biochemistry</i> , 2017, 166, 182-189.	1.5	57
43	Schiff bases in medicinal chemistry: a patent review (2010-2015). <i>Expert Opinion on Therapeutic Patents</i> , 2017, 27, 63-79.	2.4	208
44	<i>Hibiscus sabdariffa</i> L. and Its Bioactive Constituents Exhibit Antiviral Activity against HSV-2 and Anti-enzymatic Properties against Urease by an ESI-MS Based Assay. <i>Molecules</i> , 2017, 22, 722.	1.7	37
45	Sulfonamide-Linked Ciprofloxacin, Sulfadiazine and Amantadine Derivatives as a Novel Class of Inhibitors of Jack Bean Urease; Synthesis, Kinetic Mechanism and Molecular Docking. <i>Molecules</i> , 2017, 22, 1352.	1.7	42
46	The Development of Urease Inhibitors: What Opportunities Exist for Better Treatment of <i>Helicobacter pylori</i> Infection in Children?. <i>Children</i> , 2017, 4, 2.	0.6	34
47	Aminophosphinates against <i>Helicobacter pylori</i> ureolysis: Biochemical and whole-cell inhibition characteristics. <i>PLoS ONE</i> , 2017, 12, e0182437.	1.1	9
48	Biological Evaluation and Molecular Docking of Protocatechuic Acid from <i>Hibiscus sabdariffa</i> L. as a Potent Urease Inhibitor by an ESI-MS Based Method. <i>Molecules</i> , 2017, 22, 1696.	1.7	26
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50	Recent advances in design of new urease inhibitors: A review. <i>Journal of Advanced Research</i> , 2018, 13, 101-112.	4.4	157
51	Urease-aided calcium carbonate mineralization for engineering applications: A review. <i>Journal of Advanced Research</i> , 2018, 13, 59-67.	4.4	182
52	An Evaluation of Maleicitaconic Copolymers as Urease Inhibitors. <i>Soil Science Society of America Journal</i> , 2018, 82, 994-1003.	1.2	9
53	Structural exploration of cinnamate-based phosphonic acids as inhibitors of bacterial ureases. <i>European Journal of Medicinal Chemistry</i> , 2018, 159, 307-316.	2.6	14
54	Endophytes: A Gold Mine of Enzyme Inhibitors. , 2018, , 61-92.		1

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55	Synthesis, evaluation, and molecular docking studies of aryl urea-triazole-based derivatives as anti-urease agents. <i>Archiv Der Pharmazie</i> , 2018, 351, e1800005.	2.1	22
56	Future perspective for potential <i>Helicobacter pylori</i> eradication therapies. <i>Future Microbiology</i> , 2018, 13, 671-687.	1.0	64
57	Targeting <i>Helicobacter pylori</i> urease activity and maturation: In-cell high-throughput approach for drug discovery. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2245-2253.	1.1	28
58	Ureases: Historical aspects, catalytic, and non-catalytic properties – A review. <i>Journal of Advanced Research</i> , 2018, 13, 3-17.	4.4	149
59	Synthesis and kinetics studies of $N^{2-(3,5\text{-disubstituted-}H_{1,2,4\text{-triazol-4-yl)acetyl-6/7/8\text{-substituted-oxo-}H_{1,2\text{-chrom-}}$ derivatives as potent antidiabetic agents. <i>Archiv Der Pharmazie</i> , 2019, 352, e1900227.		
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62	Synthesis and characterization of new thiosemicarbazones, as potent urease inhibitors: In vitro and in silico studies. <i>Bioorganic Chemistry</i> , 2019, 87, 155-162.	2.0	41
63	The Structure of the Elusive Urease-Urea Complex Unveils the Mechanism of a Paradigmatic Nickel-Dependent Enzyme. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7415-7419.	7.2	66
64	The Structure of the Elusive Urease-Urea Complex Unveils the Mechanism of a Paradigmatic Nickel-Dependent Enzyme. <i>Angewandte Chemie</i> , 2019, 131, 7493-7497.	1.6	7
65	Investigation on the effect of alkyl chain linked mono-thioureas as Jack bean urease inhibitors, SAR, pharmacokinetics ADMET parameters and molecular docking studies. <i>Bioorganic Chemistry</i> , 2019, 86, 473-481.	2.0	17
66	Catechol-based inhibitors of bacterial urease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 1085-1089.	1.0	12
67	A patent update on therapeutic applications of urease inhibitors (2012-2018). <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 181-189.	2.4	30
68	Host-Pathogen Interactions in Urinary Tract Infections. <i>Urogenital Tract Infection</i> , 2019, 14, 71.	0.1	1
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70	Synthesis of 1,2,4-triazole-5-on derivatives and determination of carbonic anhydrase II isoenzyme inhibition effects. <i>Bioorganic Chemistry</i> , 2019, 83, 170-179.	2.0	31
71	Synthesis of terpenoid oxo derivatives with antiureolytic activity. <i>Molecular Biology Reports</i> , 2019, 46, 51-58.	1.0	4
72	Phytomedicine. , 2019, , 625-655.		14

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73	Macroalgal activity against fungal urinary tract infections: in vitro screening and evaluation study. <i>Rendiconti Lincei</i> , 2020, 31, 165-175.	1.0	8
74	Insight into the inhibitory effects of <i>Zanthoxylum nitidum</i> against <i>Helicobacter pylori</i> urease and jack bean urease: Kinetics and mechanism. <i>Journal of Ethnopharmacology</i> , 2020, 249, 112419.	2.0	29
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76	Novel thiobarbiturates as potent urease inhibitors with potential antibacterial activity: Design, synthesis, radiolabeling and biodistribution study. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115759.	1.4	26
77	Enzyme Kinetics by Isothermal Titration Calorimetry: Allostery, Inhibition, and Dynamics. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 583826.	1.6	40
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81	<i>Plectranthus barbatus</i> Andrews as anti- <i>Helicobacter pylori</i> agent with activity against adenocarcinoma gastric cells. <i>Industrial Crops and Products</i> , 2020, 146, 112207.	2.5	15
82	Identification of novel bacterial urease inhibitors through molecular shape and structure based virtual screening approaches. <i>RSC Advances</i> , 2020, 10, 16061-16070.	1.7	26
83	Novel (thio)barbituric-phenoxy-N-phenylacetamide derivatives as potent urease inhibitors: synthesis, in vitro urease inhibition, and in silico evaluations. <i>Structural Chemistry</i> , 2021, 32, 37-48.	1.0	19
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86	An Updated Review on Synthesis and Biological Activities of Thiosemicarbazide Analogs. <i>Asian Journal of Chemistry</i> , 2021, 33, 1957-1975.	0.1	0
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89	Synthesis, molecular docking, and biological evaluation of nitroimidazole derivatives as potent urease inhibitors. <i>Medicinal Chemistry Research</i> , 2021, 30, 1220-1229.	1.1	18
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95	Hydrazine clubbed 1,3-thiazoles as potent urease inhibitors: design, synthesis and molecular docking studies. Molecular Diversity, 2021, 25, 1-13.	2.1	22
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103	Current Advances in the Synthesis and Biological Evaluation of Pharmacologically Relevant 1,2,4,5-Tetrasubstituted-1H-Imidazole Derivatives. Current Organic Chemistry, 2019, 23, 2016-2101.	0.9	5
104	Contribution of Resveratrol in the Development of Novel Urease Inhibitors: Synthesis, Biological Evaluation and Molecular Docking Studies. Combinatorial Chemistry and High Throughput Screening, 2019, 22, 245-255.	0.6	4
105	Quercetin and Cinnamaldehyde Show Antipathogenic Activity Against Proteus mirabilis Isolates: Inhibition of Swarming Motility and Urease Activity. Flora: the Journal of Infectious Diseases and Clinical Microbiology = Infeksiyon Hastalıkları Ve Klinik Mikrobiyoloji Dergisi, 2020, 25, 76-83.	0.0	3
106	A state-of-art review on camel milk proteins as an emerging source of bioactive peptides with diverse nutraceutical properties. Food Chemistry, 2022, 373, 131444.	4.2	36
108	Hydroxamic Acids as Inhibitors of Urease in the Treatment of Helicobacter pylori Infections. , 2013, , 241-253.		0
109	Research progress in urinary tract infection and its therapeutic drugs. Infection International, 2018, 7, 56-61.	0.1	0
110	A Review of Studies on Urease Inhibitors. Hans Journal of Medicinal Chemistry, 2019, 07, 1-6.	0.0	0

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114	Synthesis, In Silico Studies, and Evaluation of Syn and Anti Isomers of N-Substituted Indole-3-carbaldehyde Oxime Derivatives as Urease Inhibitors against <i>Helicobacter pylori</i> . <i>Molecules</i> , 2021, 26, 6658.	1.7	5
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116	Successful treatment of encrusted cystitis: A case report and review of literature. <i>World Journal of Clinical Cases</i> , 2020, 8, 4234-4244.	0.3	3
117	One-pot synthesis of the new Hydroxamic acid and its complexes with metals. <i>Letters in Organic Chemistry</i> , 2022, 19, .	0.2	1
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125	Three New Acrylic Acid Derivatives from <i>Achillea mellifolium</i> as Potential Inhibitors of Urease from Jack Bean and $\pm$ -Glucosidase from <i>Saccharomyces cerevisiae</i> . <i>Molecules</i> , 2022, 27, 5004.	1.7	1
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129	Evaluation of S-substituted-2-mercaptobenzimidazole analogs for urease inhibitory and DPPH radical scavenging potential: synthesis, bioactivity, and molecular docking study. <i>Journal of the Iranian Chemical Society</i> , 2023, 20, 175-191.	1.2	1
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131	Synthesis and Identification of New N,N-Disubstituted Thiourea, and Thiazolidinone Scaffolds Based on Quinolone Moiety as Urease Inhibitor. <i>Molecules</i> , 2022, 27, 7126.	1.7	5
132	Enzyme Inhibitory Activities of Extracts and Carpachromene from the Stem of <i>Ficus benghalensis</i> . <i>BioMed Research International</i> , 2022, 2022, 1-6.	0.9	1
133	In Vivo Role of Two-Component Regulatory Systems in Models of Urinary Tract Infections. <i>Pathogens</i> , 2023, 12, 119.	1.2	3
134	Rational Design, Synthesis, Docking Simulation, and ADMET Prediction of Novel Barbituricâ€hydrazoneâ€phenoxyâ€1,2,3â€triazoleâ€acetamide Derivatives as Potent Urease Inhibitors. <i>ChemistrySelect</i> , 2023, 8, .	0.7	2
135	Synthesis, antimicrobial and molecular docking study of structural analogues of 3-((5-(dimethylcarbamoyl)pyrrolidin-3-yl)thio)-6-(1-hydroxyethyl)-4-methyl-7-oxo-1-azabicyclo[3.2.0]heptane-2-carboxylic acid. <i>PLoS ONE</i> , 2022, 17, e0278684.		1
136	Effect of <i>in vitro</i> simulated digestion on the anti- <i>Helicobacter Pylori</i> activity of different Propolis extracts. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2023, 38, .	2.5	2
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138	Urease Inhibition Studies of New Benzimidazoles Containing Triazole Ring. <i>Russian Journal of General Chemistry</i> , 2023, 93, 449-454.	0.3	0
139	<i>N</i> -Arylacetamide derivatives of methyl 1,2-benzothiazine-3-carboxylate as potential drug candidates for urease inhibition. <i>Royal Society Open Science</i> , 2023, 10, .	1.1	1
149	Ureasases as drug targets in fungal infections. , 2024, , 341-355.		0
150	Urease: structure, function, catalysis, and inhibition. , 2024, , 165-208.		0
151	Ureasases as drug targets in urinary tract infections. , 2024, , 297-340.		0