

Discovery of Novel Oral Protein Synthesis Inhibitors of Target Leucyl-tRNA Synthetase

Antimicrobial Agents and Chemotherapy

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Discovery of Leucyladenylate Sulfamates as Novel Leucyl-tRNA Synthetase (LRS)-Targeted Mammalian Target of Rapamycin Complex 1 (mTORC1) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10322-10328.	6.4	15
2	Structure-Based Targeting of Orthologous Pathogen Proteins Accelerates Antiparasitic Drug Discovery. <i>ACS Infectious Diseases</i> , 2017, 3, 281-292.	3.8	13
3	Targeting <i>Toxoplasma gondii</i> CPSF 3 as a new approach to control toxoplasmosis. <i>EMBO Molecular Medicine</i> , 2017, 9, 385-394.	6.9	61
4	Discovery of a Potent and Specific <i>M. tuberculosis</i> Leucyl-tRNA Synthetase Inhibitor: (S)-3-(Aminomethyl)-4-chloro-7-(2-hydroxyethoxy)benzo[c][1,2]oxaborol-1(3H)-ol (GSK656). <i>Journal of Medicinal Chemistry</i> , 2017, 60, 8011-8026.	6.4	118
5	Priming the tuberculosis drug pipeline: new antimycobacterial targets and agents. <i>Current Opinion in Microbiology</i> , 2018, 45, 39-46.	5.1	40
6	In Vitro and In Vivo Activities of DS86760016, a Novel Leucyl-tRNA Synthetase Inhibitor for Gram-Negative Pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	18
7	Hit Generation in TB Drug Discovery: From Genome to Granuloma. <i>Chemical Reviews</i> , 2018, 118, 1887-1916.	47.7	80
8	The Expanding Diversity of <i>Mycobacterium tuberculosis</i> Drug Targets. <i>ACS Infectious Diseases</i> , 2018, 4, 696-714.	3.8	60
9	New antituberculous drugs derived from natural products: current perspectives and issues in antituberculous drug development. <i>Journal of Antibiotics</i> , 2018, 71, 15-25.	2.0	20
10	A continuous assay for monitoring the synthetic and proofreading activities of multiple aminoacyl-tRNA synthetases for high-throughput drug discovery. <i>RNA Biology</i> , 2018, 15, 659-666.	3.1	11
11	An automated high-throughput system for phenotypic screening of chemical libraries on <i>C. elegans</i> and parasitic nematodes. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018, 8, 8-21.	3.4	71
12	The 7-phenyl benzoxaborole series is active against <i>Mycobacterium tuberculosis</i> . <i>Tuberculosis</i> , 2018, 108, 96-98.	1.9	22
13	The trypanocidal benzoxaborole AN7973 inhibits trypanosome mRNA processing. <i>PLoS Pathogens</i> , 2018, 14, e1007315.	4.7	53
14	Binding Assessment of Monosaccharide-Boronic Acid Complexes via Tandem Mass Spectrometry. <i>ChemistrySelect</i> , 2018, 3, 8193-8198.	1.5	1
15	The present state of the tuberculosis drug development pipeline. <i>Current Opinion in Pharmacology</i> , 2018, 42, 81-94.	3.5	70
17	Boron in drug design: Recent advances in the development of new therapeutic agents. <i>European Journal of Medicinal Chemistry</i> , 2019, 179, 791-804.	5.5	154
18	Progress and challenges in aminoacyl-tRNA synthetase-based therapeutics. <i>Journal of Biological Chemistry</i> , 2019, 294, 5365-5385.	3.4	103
19	Recent development of leucyl-tRNA synthetase inhibitors as antimicrobial agents. <i>MedChemComm</i> , 2019, 10, 1329-1341.	3.4	25

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20	Opportunities for Overcoming Mycobacterium tuberculosis Drug Resistance: Emerging Mycobacterial Targets and Host-Directed Therapy. International Journal of Molecular Sciences, 2019, 20, 2868.	4.1	47
21	First-Time-in-Human Study and Prediction of Early Bactericidal Activity for GSK3036656, a Potent Leucyl-tRNA Synthetase Inhibitor for Tuberculosis Treatment. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	50
22	Drug-resistance in Mycobacterium tuberculosis: where we stand. MedChemComm, 2019, 10, 1342-1360.	3.4	57
23	Antibacterial Activity and Mode of Action of a Sulfonamide-Based Class of Oxaborole Leucyl-tRNA-Synthetase Inhibitors. ACS Infectious Diseases, 2019, 5, 1231-1238.	3.8	26
24	Boron-Pleuromutilins as Anti-Wolbachia Agents with Potential for Treatment of Onchocerciasis and Lymphatic Filariasis. Journal of Medicinal Chemistry, 2019, 62, 2521-2540.	6.4	35
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26	New Drugs for the Treatment of Tuberculosis. Clinics in Chest Medicine, 2019, 40, 811-827.	2.1	33
27	Roles of aminoacyl-tRNA synthetases in immune regulation and immune diseases. Cell Death and Disease, 2019, 10, 901.	6.3	58
28	New drugs to treat difficult tuberculous and nontuberculous mycobacterial pulmonary disease. Current Opinion in Pulmonary Medicine, 2019, 25, 271-280.	2.6	21
29	Impact of Target-Based Drug Design in Anti-bacterial Drug Discovery for the Treatment of Tuberculosis. Challenges and Advances in Computational Chemistry and Physics, 2019, , 307-346.	0.6	3
30	Exploiting evolutionary trade-offs for posttreatment management of drug-resistant populations. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17924-17931.	7.1	19
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35	Aminoacyl-tRNA synthetases as drug targets. The Enzymes, 2020, 48, 321-350.	1.7	7
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37	Synthesis, Characterization, and Biological Evaluation of Novel 7-Oxo-7H-thiazolo[3,2-b]-1,2,4-triazine-2-carboxylic Acid Derivatives. Molecules, 2020, 25, 1307.	3.8	9

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38	Antibiotics in the clinical pipeline in October 2019. <i>Journal of Antibiotics</i> , 2020, 73, 329-364.	2.0	188
39	<i>In Vitro</i> Susceptibility Testing of GSK656 against <i>Mycobacterium</i> Species. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	4
40	Molecular basis of the multifaceted functions of human leucyl-tRNA synthetase in protein synthesis and beyond. <i>Nucleic Acids Research</i> , 2020, 48, 4946-4959.	14.5	11
41	Assessing the role of SH3RF1 and SH3RF2 polymorphisms in susceptibility to tuberculosis: A case-control study in the Han Chinese population. <i>Microbial Pathogenesis</i> , 2021, 152, 104567.	2.9	1
43	Pipeline of anti- <i>Mycobacterium abscessus</i> small molecules: Repurposable drugs and promising novel chemical entities. <i>Medicinal Research Reviews</i> , 2021, 41, 2350-2387.	10.5	32
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45	Spontaneous Selection of <i>Cryptosporidium</i> Drug Resistance in a Calf Model of Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	12
46	A Screening of the MMV Pandemic Response Box Reveals Epetraborole as A New Potent Inhibitor against <i>Mycobacterium abscessus</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 5936.	4.1	16
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49	Chemical Classes Presenting Novel Antituberculosis Agents Currently in Different Phases of Drug Development: A 2010–2020 Review. <i>Pharmaceuticals</i> , 2021, 14, 461.	3.8	31
50	GENETIC FACTORS ASSOCIATED WITH MUTATIONS OF MOLECULAR MECHANISM AND DRUG RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS. <i>Biological & Clinical Sciences Research Journal</i> , 2021, 2021, .	0.6	1
52	Current Molecular Therapeutic Agents and Drug Candidates for <i>Mycobacterium abscessus</i> . <i>Frontiers in Pharmacology</i> , 2021, 12, 724725.	3.5	15
53	Epetraborole Is Active against <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, e0115621.	3.2	17
54	Challenges and Advances in TB Drug Discovery. , 2019, , 463-495.		2
55	Clinical Management of Drug-resistant <i>Mycobacterium tuberculosis</i> Strains: Pathogen-targeted Versus Host-directed Treatment Approaches. <i>Current Pharmaceutical Biotechnology</i> , 2019, 20, 272-284.	1.6	3
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62	Boron-containing small molecules as antiparasitic agents. , 2022, , 155-201.		0
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65	Identification of novel mycobacterium tuberculosis leucyl-tRNA synthetase inhibitor using a knowledge-based computational screening approach. Journal of King Saud University - Science, 2022, 34, 102032.	3.5	3
66	Tuberculosis Drug Discovery: Challenges and New Horizons. Journal of Medicinal Chemistry, 2022, 65, 7489-7531.	6.4	59
67	A Novel Leucyl-tRNA Synthetase Inhibitor, MRX-6038, Expresses Anti-Mycobacterium abscessus Activity <i>In Vitro</i> and <i>In Vivo</i> . Antimicrobial Agents and Chemotherapy, 2022, 66, .	3.2	6
68	Identification of dual-targeted <i>Mycobacterium tuberculosis</i> aminoacyl-tRNA synthetase inhibitors using machine learning. Future Medicinal Chemistry, 2022, 14, 1223-1237.	2.3	3
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75	Design, Synthesis and Antimicrobial Evaluation of New N-(1-Hydroxy-1,3-dihydrobenzo[c][1,2]oxaborol-6-yl)(hetero)aryl-2-carboxamides as Potential Inhibitors of Mycobacterial Leucyl-tRNA Synthetase. International Journal of Molecular Sciences, 2023, 24, 2951.	4.1	0
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79	DS86760016, a Leucyl-tRNA Synthetase Inhibitor, Is Active against Mycobacterium abscessus. Antimicrobial Agents and Chemotherapy, 2023, 67, .	3.2	2
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81	MEDICINAL CHEMISTRY ENDEAVORS FOR THE DISCOVERY OF NOVEL TUBERCULOSIS DRUGS. Medicinal Chemistry Reviews, 0, , 337-358.	0.1	0
82	Benzoxaborole. , 2023, , 335-355.		0
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85	Laboratory Evolution of Antimicrobial Resistance in Bacteria to Develop Rational Treatment Strategies. Antibiotics, 2024, 13, 94.	3.7	0
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