

# Synthesis and antituberculosis activity of indole-*pyr* hydrazide-*hydrazones*, and thiosemicarbazones

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis, Crystal Structure, and Cytotoxic Activity of a Novel Eight-Coordinated Dinuclear Ca(II)-Schiff Base Complex. Crystals, 2016, 6, 109.	2.2	9
2	Evaluation of anti-inflammatory effect of derivative (E)-N-(4-bromophenyl)-2-(thiophen-2-ylmethylene)-thiosemicarbazone. Biomedicine and Pharmacotherapy, 2016, 80, 388-392.	5.6	18
3	In Vitro Activity of 3-Triazeneindoles against Mycobacterium tuberculosis and Mycobacterium avium. Antimicrobial Agents and Chemotherapy, 2016, 60, 6422-6424.	3.2	11
4	Design, synthesis, and in vitro antimicrobial activity of hydrazone-hydrazones of 2-substituted acetic acid. Chemical Biology and Drug Design, 2016, 88, 873-883.	3.2	22
5	New Hydrazides and Hydrazone-Hydrazones of 2,3-Dihalogen Substituted Propionic Acids: Synthesis and in Vitro Antimicrobial Activity Evaluation. Chemistry and Biodiversity, 2017, 14, e1700075.	2.1	9
6	Synthesis, antimycobacterial activity and docking study of 2-aryl-[1]benzopyrano[4,3-c]pyrazol-4(1H)-one. Journal of Molecular Catalysis B: Enzymatic, 2017, 140, 2996-3002.	2.2	26
7	Ferrocene-based thiosemicarbazones: Solvent effect on thiol-thione tautomerism and conformational polymorphism. Journal of Organometallic Chemistry, 2017, 846, 121-128.	1.8	11
8	Synthesis and investigation of antimicrobial activities of nitrofurazone analogues containing hydrazone-hydrazone moiety. Saudi Pharmaceutical Journal, 2017, 25, 1097-1102.	2.7	37
9	Hydrazone-hydrazones as potential antimicrobial agents: overview of the literature since 2010. Medicinal Chemistry Research, 2017, 26, 287-301.	2.4	197
10	Six-Membered Ring Systems. Progress in Heterocyclic Chemistry, 2017, 29, 383-439.	0.5	2
11	Advances in Drug Discovery of New Antitubercular Multidrug-Resistant Compounds. Pharmaceuticals, 2017, 10, 51.	3.8	33
12	Synthesis of New Fluoro-Benzimidazole Derivatives as an Approach towards the Discovery of Novel Intestinal Antiseptic Drug Candidates. Current Pharmaceutical Design, 2017, 23, 2276-2286.	1.9	10
13	Synthesis, Docking, ADME-Tox Study of 2-(2-(2-chlorophenyl)quinoline-4-carbonyl)-N-substituted hydrazinecarbothioamide Derivatives and Their Biological Evaluation. Journal of Heterocyclic Chemistry, 2018, 55, 632-644.	2.6	6
14	New hydrazone-hydrazones of isonicotinic acid: synthesis, lipophilicity and in vitro antimicrobial screening. Chemical Biology and Drug Design, 2018, 91, 915-923.	3.2	24
15	Discovery of DEBIC to correlate P-selectin inhibition and DNA intercalation in cancer therapy and complicated thrombosis. Oncotarget, 2018, 9, 32119-32133.	1.8	5
16	Novel indole-thiazolidinone conjugates: Design, synthesis and whole-cell phenotypic evaluation as a novel class of antimicrobial agents. European Journal of Medicinal Chemistry, 2018, 160, 49-60.	5.5	65
17	The crystal structure of (E)-N-(pyridin-2-ylmethylene)pyrazine-2-carbohydrazide, C <sub>11</sub> H <sub>9</sub> N <sub>5</sub> O. Zeitschrift für Kristallographie - New Crystal Structures, 2018, 233, 121-122.	0.3	2
18	Experimental and theoretical conformational studies of hydrazine derivatives bearing a chromene scaffold. Journal of Molecular Structure, 2019, 1198, 126880.	3.6	5

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19	Synthesis, molecular docking, antimicrobial evaluation, and DNA cleavage assay of new thiadiazole/oxadiazole ciprofloxacin derivatives. Monatshefte für Chemie, 2019, 150, 1809-1824.	1.8	12
20	Quinolone-isoniazid hybrids: synthesis and preliminary <i>in vitro</i> cytotoxicity and anti-tuberculosis evaluation. MedChemComm, 2019, 10, 326-331.	3.4	20
21	Schiff base metal complexes of 4-methyl-1H-indol-3-carbaldehyde derivative as a series of potential antioxidants and antimicrobial: Synthesis, spectroscopic characterization and 3D molecular modeling. Journal of Molecular Structure, 2019, 1195, 220-230.	3.6	25
22	The studies of structure, thermodynamic properties and theoretical analyses of 2-[(4-nitro-benzoyl)-hydrazone]-propionic acid. Journal of Molecular Structure, 2019, 1184, 532-537.	3.6	4
23	New indole and indazole derivatives as potential antimycobacterial agents. Medicinal Chemistry Research, 2019, 28, 485-497.	2.4	26
24	New 1,3,4-Thiadiazole Derivatives: Synthesis, Characterization, and Antimicrobial Activity. Journal of Heterocyclic Chemistry, 2019, 56, 1038-1047.	2.6	11
25	Anomalous coordination behaviour of 6-methyl-2-oxo-1,2-dihydroquinoline-3-carboxaldehyde (<math>N</math>-substituted Schiff bases in Cu(II) complexes: Studies of structure, biomolecular interactions and cytotoxicity. Applied Organometallic Chemistry, 2019, 33, e4659.	3.5	13
26	Synthesis and Bioactivity of Hydrazone-Hydrazones with the 1-Adamantyl-Carbonyl Moiety. Molecules, 2019, 24, 4000.	3.8	17
27	Discovery of hydrazone containing thiadiazoles as Mycobacterium tuberculosis growth and enoyl acyl carrier protein reductase (InhA) inhibitors. European Journal of Medicinal Chemistry, 2020, 188, 112035.	5.5	26
28	An efficacious synthesis of $N$ -substituted indole derivatives and their antimicrobial studies. Journal of Heterocyclic Chemistry, 2020, 57, 428-435.	2.6	17
29	Hydrazone comprising compounds as promising anti-infective agents: chemistry and structure-property relationship. Materials Today Chemistry, 2020, 18, 100349.	3.5	46
30	Design and synthesis of 4-Aminoquinoline-isoindoline-dione-isoniazid triads as potential anti-mycobacterials. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127576.	2.2	11
31	Structural Modifications of 3-Triazeneindoles and Their Increased Activity Against Mycobacterium tuberculosis. Antibiotics, 2020, 9, 356.	3.7	4
32	Ni(II) and Cu(II) complexes of bidentate thiosemicarbazone ligand: Synthesis, structural, theoretical, biological studies and molecular modeling. Applied Organometallic Chemistry, 2020, 34, e5736.	3.5	9
33	Molecule Property Analyses of Active Compounds for Mycobacterium tuberculosis. Journal of Medicinal Chemistry, 2020, 63, 8917-8955.	6.4	19
34	Antimicrobial Activity with Enhanced Mechanical Properties in Phenylalanine-Based Chiral Coassembled Hydrogels: The Influence of Pyridine Hydrazone Derivatives. ACS Applied Bio Materials, 2020, 3, 2295-2304.	4.6	11
35	4-Substituted picolinohydrazoneamides as a new class of potential antitubercular agents. European Journal of Medicinal Chemistry, 2020, 190, 112106.	5.5	11
36	Highly Regioselective Ring-Opening of Epoxides: Synthesis and Biological Evaluation as Potent Antimicrobial Agents. Asian Journal of Organic & Medicinal Chemistry, 2021, 6, 228-234.	0.0	0

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37	Aromatic and Heteroaromatic 4-Benzyl-4H-thieno[3,2-b]pyrrole-5-carbohydrazides. Russian Journal of Organic Chemistry, 2021, 57, 117-120.	0.8	2
38	Contribution of <i>N</i> -heterocycles towards anti-tubercular drug discovery (2014–2019); predicted and reengineered molecular frameworks. Drug Development Research, 2021, 82, 767-783.	2.9	15
39	Synthesis, In silico and In vitro Analysis of Hydrazones as Potential Antituberculosis Agents. Current Computer-Aided Drug Design, 2021, 17, 294-306.	1.2	32
40	Recent advancements and developments in search of anti-tuberculosis agents: A quinquennial update and future directions. Journal of Molecular Structure, 2022, 1248, 131473.	3.6	25
41	Synthesis and radical scavenging activity of new phenolic hydrazone/hydrazide derivatives: Experimental and theoretical studies. Journal of Molecular Structure, 2022, 1249, 131546.	3.6	25
42	Synthesis, Spectroscopic, Molecular Modeling and Anti-Fungal Studies of Some Divalent Metal Complexes of 4-Hydroxyacetophenone Isonicotinoyl Hydrazone. Open Journal of Inorganic Chemistry, 2021, 11, 95-109.	0.7	7
43	(E)-4-Methoxy- <i>N</i> -(2,4,5-trifluorobenzylidene)benzohydrazide monohydrate. IUCrData, 2016, 1, .	0.3	2
44	A brief review of the biological potential of indole derivatives. Future Journal of Pharmaceutical Sciences, 2020, 6, .	2.8	69
45	Current Trends and Future Directions of Fluoroquinolones. Current Medicinal Chemistry, 2019, 26, 3132-3149.	2.4	35
46	Synthesis and Characterization of Novel Thiazolidinones and Thioxothiazolidinones Derived from Substituted Indole. MolBank, 2021, 2021, M1284.	0.5	1
47	(E)-4-Methoxy- <i>N</i> -(4-methylbenzylidene)benzohydrazide. IUCrData, 2016, 1, .	0.3	0
49	Synthetic account of indoles in search of potential anti-mycobacterial agents: A review and future insights. Journal of Molecular Structure, 2022, 1248, 131522.	3.6	24
50	Synthesis, Antitumor Activity and Molecular Docking Studies on Seven Novel Thiazacridine Derivatives. Combinatorial Chemistry and High Throughput Screening, 2020, 23, 359-368.	1.1	1
51	Different Schiff Bases' Structure, Importance and Classification. Molecules, 2022, 27, 787.	3.8	75
52	Syntheses, structural characterization and evaluation of the anti-tubercular activity of copper (II) complexes containing 3-methoxysalicylaldehyde-4-methylthiosemicarbazone. Journal of Molecular Structure, 2022, 1257, 132589.	3.6	4
53	Bivalent metal complexes of a novel modified nicotinic acid hydrazide drug: Synthesis, characterization, and anti-tubercular studies. European Journal of Chemistry, 2022, 13, 63-68.	0.6	4
54	One-Pot Synthesis and <i>in Silico</i> Molecular Docking Studies of Arylselanyl Hydrazides as Potential Antituberculosis Agents. Chemistry and Biodiversity, 2022, 19, .	2.1	0
55	Linking azoles to isoniazid via hydrazone bridge: Synthesis, crystal structure determination, antitubercular evaluation and computational studies. Journal of Molecular Liquids, 2022, 354, 118873.	4.9	6

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56	Synthesis, Molecular docking, Antioxidant, Anti-TB, and Potent MCF-7 Anticancer Studies of Novel Aryl-carbohydrazone Analogues. Current Computer-Aided Drug Design, 2022, 18, 247-257.	1.2	12
57	Synthesis of New Hydrazones Using a Biodegradable Catalyst, Their Biological Evaluations and Molecular Modeling Studies (Part-II). Journal of Computational Biophysics and Chemistry, 2022, 21, 857-882.	1.7	26
58	Indole: A promising scaffold for the discovery and development of potential anti-tubercular agents. Current Research in Pharmacology and Drug Discovery, 2022, 3, 100119.	3.6	9
59	Synthesis and Computational Study of Some New 1-(1H-indol-1-yl)ethanone Derivatives on COX-2 Enzyme and Evaluation of In-Vivo Analgesic and Anti-inflammatory Activity. Letters in Drug Design and Discovery, 2023, 20, 1569-1584.	0.7	0
60	Synthesis, characterization, anti-tuberculosis activity and molecular modeling studies of thiourea derivatives bearing aminoguanidine moiety. Journal of Molecular Structure, 2022, 1270, 133899.	3.6	9
61	Role of pyridines as enzyme inhibitors in medicinal chemistry. , 2023, , 207-252.		0
62	Synthesis of pyridine derivatives for diverse biological activity profiles: A review. , 2023, , 605-625.		9
63	Synthesis and characterization of novel conformers of (E)-2-((3-nitro-1H-imidazo[1,2-a]pyridin-2-ylthio)-N-(benzylideneacetone)hydrazide derivatives. Magnetic Resonance in Chemistry, 2022, 60, 1157-1170.		
64	The N-Substituted-4-Methylbenzenesulphonyl Hydrazone Inhibits Angiogenesis in Zebrafish Tg(fli1:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.8	8
65	Synthesis, Characterization, ADMET-SAR™ Prediction, DPPH Assay, and Anti-Mycobacterium Study of 4-[(substituted benzyl) amino]benzo hydrazides and its Hydrazones as the Acyl-CoA Carboxylase, AccD5 Inhibitors. Current Computer-Aided Drug Design, 2023, 19, 300-312.	1.2	1
66	Spectroscopic, crystal structure and DFT-assisted studies of some nickel(II) chelates of a heterocyclic-based NNO donor aroylhydrazone: in vitro DNA binding and docking studies. Molecular Diversity, 0, , .	3.9	2
67	Design, synthesis, antioxidant and anticholinesterase activities of novel isonicotinic hydrazide-hydrazone derivatives. Journal of Molecular Structure, 2023, 1279, 135037.	3.6	6
68	Glycerol based carbon sulfonic acid catalyzed synthesis, in silico studies and in vitro biological evaluation of isonicotinohydrazide derivatives as potent antimicrobial and anti-tubercular agents. Heliyon, 2023, 9, e13226.	3.2	3
69	Recent Advances in Anti-Tuberculosis Drug Discovery Based on Hydrazide-Hydrazone and Thiadiazole Derivatives Targeting InhA. Pharmaceuticals, 2023, 16, 484.	3.8	3
70	Synthesis, Crystal structure, Hirshfeld surface interactions, anti-corrosion analysis, DFT calculations, Docking studies and evaluation of the antioxidant activity of a new zwitterion Schiff base. Journal of Molecular Structure, 2023, 1286, 135569.	3.6	2
71	Synthesis and Pharmacological Profile of Hydrazide Compounds. Research Journal of Pharmacy and Technology, 2023, , 975-982.	0.8	0
72	Characterization of the protolysis equilibria of 1-naphthoylhydrazide and of its oxidation mechanism by hexachloroiridate(IV) in aqueous solution. Chemical Physics, 2023, 572, 111951.	1.9	1
73	A novel series of dipeptide derivatives containing indole-3-carboxylic acid conjugates as potential antimicrobial agents: the design, solid phase peptide synthesis, in vitro biological evaluation, and molecular docking study. RSC Advances, 2023, 13, 24250-24263.	3.6	2