

Bente FrÃlund

List of Publications by Year in descending order

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304602

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#	ARTICLE	IF	CITATIONS
1	Discovery and Optimization of 5-Hydroxy-Diclofenac toward a New Class of Ligands with Nanomolar Affinity for the CaMKII \pm Hub Domain. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 6656-6676.	2.9	3
2	Radiolabeled HOCPA as a highly useful tool in drug discovery and pharmacology. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2021, 64, 77-81.	0.5	0
3	Structural Determinants for the Mode of Action of Imidazopyridine DS2 at $\hat{\Gamma}$ -Containing $\hat{\Gamma}^3$ -Aminobutyric Acid Type A Receptors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 4730-4743.	2.9	6
4	Molecular Determinants Underlying Delta Selective Compound 2 Activity at $\hat{\Gamma}$ -Containing GABA _A Receptors. <i>Molecular Pharmacology</i> , 2021, 100, 46-56.	1.0	2
5	GHB analogs confer neuroprotection through specific interaction with the CaMKII \pm hub domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
6	Molecular Determinants and Pharmacological Analysis for a Class of Competitive Non-transported Bicyclic Inhibitors of the Betaine/GABA Transporter BGT1. <i>Frontiers in Chemistry</i> , 2021, 9, 736457.	1.8	5
7	Structure-Activity Studies of 3,9-Diazaspiro[5.5]undecane-Based $\hat{\Gamma}^3$ -Aminobutyric Acid Type A Receptor Antagonists with Immunomodulatory Effect. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17795-17812.	2.9	4
8	Sex-specific alterations in GABA receptor-mediated responses in laterodorsal tegmentum are associated with prenatal exposure to nicotine. <i>Developmental Neurobiology</i> , 2020, 80, 178-199.	1.5	4
9	Exploring the molecular determinants for subtype-selectivity of 2-amino-1,4,5,6-tetrahydropyrimidine-5-carboxylic acid analogs as betaine/GABA transporter 1 (BGT1) substrate-inhibitors. <i>Scientific Reports</i> , 2020, 10, 12992.	1.6	5
10	Silencing of spontaneous activity at $\hat{\Gamma}^2/\hat{\Gamma}^3$ GABA A receptors in hippocampal granule cells reveals different ligand pharmacology. <i>British Journal of Pharmacology</i> , 2020, 177, 3975-3990.	2.7	9
11	Discovery of a new class of orthosteric antagonists with nanomolar potency at extrasynaptic GABA _A receptors. <i>Scientific Reports</i> , 2020, 10, 10078.	1.6	10
12	Regioselective N-Alkylation of Ethyl 4-(benzyloxy)-1,2,3-triazolecarboxylate: A Useful Tool for the Synthesis of Carboxylic Acid Bioisosteres. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 501-519.	1.4	14
13	Designing Poly-agonists for Treatment of Metabolic Diseases: Challenges and Opportunities. <i>Drugs</i> , 2019, 79, 1187-1197.	4.9	15
14	Developing New 4-PIOL and 4-PHP Analogues for Photoinactivation of $\hat{\Gamma}^3$ -Aminobutyric Acid Type A Receptors. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4669-4684.	1.7	6
15	Bioisosteres of Indomethacin as Inhibitors of Aldo-Keto Reductase 1C3. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 437-443.	1.3	30
16	Five-Membered N-Heterocyclic Scaffolds as Novel Amino Bioisosteres at $\hat{\Gamma}^3$ -Aminobutyric Acid (GABA) Type A Receptors and GABA Transporters. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 5797-5809.	2.9	20
17	Synthesis and Pharmacological Evaluation of [¹¹ C]4-Methoxy-N-[2-(thiophen-2-yl)imidazo[1,2-a]pyridin-3-yl]benzamide as a Brain Penetrant PET Ligand Selective for the $\hat{\Gamma}$ -Subunit-Containing $\hat{\Gamma}^3$ -Aminobutyric Acid Type A Receptors. <i>ACS Omega</i> , 2019, 4, 8846-8851.	1.6	7
18	Structural and molecular aspects of betaine-GABA transporter 1 (BGT1) and its relation to brain function. <i>Neuropharmacology</i> , 2019, 161, 107644.	2.0	25

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19	Discovery of 2-(Imidazo[1,2- <i>b</i>]pyridazin-2-yl)acetic Acid as a New Class of Ligands Selective for the γ -Hydroxybutyric Acid (GHB) High-Affinity Binding Sites. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2798-2813.	2.9	12
20	Lack of evidence for synaptic high-affinity γ -hydroxybutyric acid (GHB) transport in rat brain synaptosomes and 11 Na ⁺ -dependent SLC neurotransmitter transporters. <i>Journal of Neurochemistry</i> , 2019, 149, 195-210.	2.1	2
21	Hydroxazole scaffold-based Plasmodium falciparum dihydroorotate dehydrogenase inhibitors: Synthesis, biological evaluation and X-ray structural studies. <i>European Journal of Medicinal Chemistry</i> , 2019, 163, 266-280.	2.6	23
22	Structure-Function Evaluation of Imidazopyridine Derivatives Selective for α -Subunit-Containing γ -Aminobutyric Acid Type A (GABAA) Receptors. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1951-1968.	2.9	21
23	Pharmacological Characterization of [³ H]ATPCA as a Substrate for Studying the Functional Role of the Betaine/GABA Transporter 1 and the Creatine Transporter. <i>ACS Chemical Neuroscience</i> , 2018, 9, 545-554.	1.7	11
24	4-Hydroxy-1,2,3-triazole moiety as bioisostere of the carboxylic acid function: a novel scaffold to probe the orthosteric γ -aminobutyric acid receptor binding site. <i>European Journal of Medicinal Chemistry</i> , 2018, 158, 311-321.	2.6	27
25	Targeting Myeloid Differentiation Using Potent 2-Hydroxypyrazolo[1,5- <i>a</i>]pyridine Scaffold-Based Human Dihydroorotate Dehydrogenase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 6034-6055.	2.9	57
26	Radiosynthesis and Evaluation of [¹¹ C]3-Hydroxycyclopent-1-enecarboxylic Acid as Potential PET Ligand for the High-Affinity γ -Hydroxybutyric Acid Binding Sites. <i>ACS Chemical Neuroscience</i> , 2017, 8, 22-27.	1.7	8
27	Imidazole-4-acetic acid, a new lead structure for interaction with the taurine transporter in outer blood-retinal barrier cells. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 103, 77-84.	1.9	6
28	Monastrol, a 3,4-dihydropyrimidin-2(1H)-thione, as structural scaffold for the development of modulators for GHB high-affinity binding sites and α 1 α 2 α GABA A receptors. <i>European Journal of Medicinal Chemistry</i> , 2017, 138, 300-312.	2.6	7
29	Development of a Robust Mammalian Cell-based Assay for Studying Recombinant α 4 α 1 α 3 α GABA _A Receptor Subtypes. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2017, 121, 119-129.	1.2	17
30	Molecular Hybridization of Potent and Selective γ -Hydroxybutyric Acid (GHB) Ligands: Design, Synthesis, Binding Studies, and Molecular Modeling of Novel 3-Hydroxycyclopent-1-enecarboxylic Acid (HOCPA) and trans- γ -Hydroxycrotonic Acid (T-HCA) Analogs. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 9022-9039.	2.9	21
31	Astrocytic GABA Transporters: Pharmacological Properties and Targets for Antiepileptic Drugs. <i>Advances in Neurobiology</i> , 2017, 16, 283-296.	1.3	28
32	Development of Non-GAT1-Selective Inhibitors: Challenges and Achievements. <i>Advances in Neurobiology</i> , 2017, 16, 315-332.	1.3	11
33	Discovery and Evaluation of Anti-Fibrinolytic Plasmin Inhibitors Derived from 5-(4-Piperidyl)isoxazol-3-ol (4-PIOL). <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1703-1714.	2.5	7
34	Functional characterization of GABAA receptor-mediated modulation of cortical neuron network activity in microelectrode array recordings. <i>PLoS ONE</i> , 2017, 12, e0186147.	1.1	25
35	Context-Dependent Modulation of GABA _A -Mediated Tonic Currents. <i>Journal of Neuroscience</i> , 2016, 36, 607-621.	1.7	9
36	Delineation of the functional properties and the mechanism of action of TMPPAA, an allosteric agonist and positive allosteric modulator of 5-HT ₃ receptors. <i>Biochemical Pharmacology</i> , 2016, 110-111, 92-108.	2.0	14

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37	The labeling of unsaturated $\hat{3}$ -hydroxybutyric acid by heavy isotopes of hydrogen: iridium complex-mediated H/D exchange by C-H bond activation vs reduction by boron-deuterides/tritides. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2016, 59, 476-483.	0.5	10
38	Discovery of $\hat{4}$ -Substituted Imidazole- $\hat{4}$ -acetic Acid Analogues as a Novel Class of $\hat{1}$ - $\hat{3}$ -Aminobutyric Acid Type A Receptor Antagonists with Effect on Retinal Vascular Tone. <i>ChemMedChem</i> , 2016, 11, 2299-2310.	1.6	4
39	In Vitro and In Vivo Evidence for Active Brain Uptake of the GHB Analog HOCPCA by the Monocarboxylate Transporter Subtype 1. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 354, 166-174.	1.3	16
40	Substituted 4-hydroxy-1,2,3-triazoles: synthesis, characterization and first drug design applications through bioisosteric modulation and scaffold hopping approaches. <i>MedChemComm</i> , 2015, 6, 1285-1292.	3.5	40
41	Differential interactions of 5-(4-piperidyl)-3-isoxazolol analogues with insect $\hat{3}$ -aminobutyric acid receptors leading to functional selectivity. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 66, 64-71.	1.2	10
42	Exploration of the molecular architecture of the orthosteric binding site in the $\hat{2}$ nicotinic acetylcholine receptor with analogs of 3-(dimethylamino)butyl dimethylcarbamate (DMABC) and 1-(pyridin-3-yl)-1,4-diazepane. <i>European Journal of Medicinal Chemistry</i> , 2015, 102, 425-444.	2.6	4
43	Conformationally restrained carbamoylcholine homologues. Synthesis, pharmacology at neuronal nicotinic acetylcholine receptors and biostructural considerations. <i>European Journal of Medicinal Chemistry</i> , 2015, 102, 352-362.	2.6	4
44	GABAA Receptor Partial Agonists and Antagonists: Structure, Binding Mode, and Pharmacology. <i>Advances in Pharmacology</i> , 2015, 72, 201-227.	1.2	38
45	The GABAA Antagonist DPP-4-PIOL Selectively Antagonises Tonic over Phasic GABAergic Currents in Dentate Gyrus Granule Cells. <i>Neurochemical Research</i> , 2014, 39, 2078-2084.	1.6	9
46	5-(Piperidin- $\hat{4}$ -yl)- $\hat{3}$ -Hydroxypyrazole: A Novel Scaffold for Probing the Orthosteric $\hat{3}$ -Aminobutyric Acid Type A Receptor Binding Site. <i>ChemMedChem</i> , 2014, 9, 2475-2485.	1.6	8
47	Probing $\hat{4}$ -GABA Receptor Heterogeneity: Differential Regional Effects of a Functionally Selective $\hat{1}$ - $\hat{3}$ -Receptor Agonist on Tonic and Phasic Inhibition in Rat Brain. <i>Journal of Neuroscience</i> , 2014, 34, 16256-16272.	1.7	24
48	Probing the Orthosteric Binding Site of GABAA Receptors with Heterocyclic GABA Carboxylic Acid Bioisosteres. <i>Neurochemical Research</i> , 2014, 39, 1005-1015.	1.6	18
49	Positive allosteric modulation of the GHB high-affinity binding site by the GABAA receptor modulator monastrol and the flavonoid catechin. <i>European Journal of Pharmacology</i> , 2014, 740, 570-577.	1.7	21
50	Pharmacological Identification of a Guanidine-Containing $\hat{2}$ -Alanine Analogue with Low Micromolar Potency and Selectivity for the Betaine/GABA Transporter 1 (BGT1). <i>Neurochemical Research</i> , 2014, 39, 1988-1996.	1.6	20
51	Synthesis and pharmacological evaluation of 6-aminonicotinic acid analogues as novel GABAA receptor agonists. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 404-416.	2.6	14
52	Exploring the Orthosteric Binding Site of the $\hat{3}$ -Aminobutyric Acid Type A Receptor Using 4-(Piperidin- $\hat{4}$ -yl)-1-hydroxypyrazoles 3- or 5-Imidazolyl Substituted: Design, Synthesis, and Pharmacological Evaluation. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 6536-6540.	2.9	6
53	New Synthesis and Tritium Labeling of a Selective Ligand for Studying High-Affinity $\hat{3}$ -Hydroxybutyrate (GHB) Binding Sites. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 8201-8205.	2.9	26
54	Synthesis and Biological Evaluation of 4-(Aminomethyl)-1-hydroxypyrazole Analogues of Muscimol as $\hat{3}$ -Aminobutyric Acid A Receptor Agonists. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 993-1006.	2.9	19

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55	$\hat{1}\pm 4\hat{1}2\hat{1}$ GABA _A receptors are high-affinity targets for $\hat{1}^3$ -hydroxybutyric acid (GHB). Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13404-13409.	3.3	87
56	New insights into the GABA _A receptor structure and orthosteric ligand binding: Receptor modeling guided by experimental data. Proteins: Structure, Function and Bioinformatics, 2011, 79, 1458-1477.	1.5	41
57	Novel 4-(Piperidin-4-yl)-1-hydroxypyrazoles as $\hat{1}^3$ -Aminobutyric Acid Receptor Ligands: Synthesis, Pharmacology, and Structure-Activity Relationships. Journal of Medicinal Chemistry, 2010, 53, 3417-3421.	2.9	22
58	Novel Radioiodinated $\hat{1}^3$ -Hydroxybutyric Acid Analogues for Radiolabeling and Photolinking of High-Affinity $\hat{1}^3$ -Hydroxybutyric Acid Binding Sites. Journal of Pharmacology and Experimental Therapeutics, 2010, 335, 458-464.	1.3	16
59	Inhibition of the betaine-GABA transporter (mGAT2/BGT-1) modulates spontaneous electrographic bursting in the medial entorhinal cortex (mEC). Epilepsy Research, 2008, 79, 6-13.	0.8	26
60	Novel High-Affinity and Selective Biaromatic 4-Substituted $\hat{1}^3$ -Hydroxybutyric Acid (GHB) Analogues as GHB Ligands: Design, Synthesis, and Binding Studies. Journal of Medicinal Chemistry, 2008, 51, 8088-8095.	2.9	26
61	4-Aryl-5-(4-Piperidyl)-3-Isioxazol GABA Antagonists: Synthesis, Pharmacology, and Structure-Activity Relationships. Journal of Medicinal Chemistry, 2007, 50, 1988-1992.	2.9	32
62	5-Substituted Imidazole-4-acetic Acid Analogues: Synthesis, Modeling, and Pharmacological Characterization of a Series of Novel $\hat{1}^3$ -Aminobutyric Acid _C Receptor Agonists. Journal of Medicinal Chemistry, 2007, 50, 4147-4161.	2.9	48
63	Hydroxy-1,2,5-oxadiazolyl Moiety as Bioisoster of the Carboxy Function. Synthesis, Ionization Constants, and Pharmacological Characterization of $\hat{1}^3$ -Aminobutyric Acid (GABA) Related Compounds. Journal of Medicinal Chemistry, 2006, 49, 4442-4446.	2.9	28
64	Potent 4-Arylalkyl-Substituted 3-Isioxazol GABA Competitive/Noncompetitive Antagonists: Synthesis and Pharmacology. Journal of Medicinal Chemistry, 2006, 49, 1388-1396.	2.9	27
65	Selective inhibitors of GABA uptake: synthesis and molecular pharmacology of 4-N-methylamino-4,5,6,7-tetrahydrobenzo[d]isoxazol-3-ol analogues. Bioorganic and Medicinal Chemistry, 2005, 13, 895-908.	1.4	73
66	Potent 4-Aryl- or 4-Arylalkyl-Substituted 3-Isioxazol GABA Antagonists: Synthesis, Pharmacology, and Molecular Modeling. Journal of Medicinal Chemistry, 2005, 48, 427-439.	2.9	42
67	First Demonstration of a Functional Role for Central Nervous System Betaine/ $\hat{1}^3$ -Aminobutyric Acid Transporter (mGAT2) Based on Synergistic Anticonvulsant Action among Inhibitors of mGAT1 and mGAT2. Journal of Pharmacology and Experimental Therapeutics, 2005, 312, 866-874.	1.3	79
68	Novel Cyclic $\hat{1}^3$ -Hydroxybutyrate (GHB) Analogs with High Affinity and Stereoselectivity of Binding to GHB Sites in Rat Brain. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 346-351.	1.3	45
69	Aza-THIP and related analogues of THIP as GABA C antagonists. Bioorganic and Medicinal Chemistry, 2003, 11, 4891-4896.	1.4	23
70	Novel Class of Potent 4-Arylalkyl Substituted 3-Isioxazol GABA Antagonists: Synthesis, Pharmacology, and Molecular Modeling. Journal of Medicinal Chemistry, 2002, 45, 2454-2468.	2.9	128
71	A Novel Class of Potent 3-Isioxazol GABA Antagonists: Design, Synthesis, and Pharmacology. Journal of Medicinal Chemistry, 2000, 43, 4930-4933.	2.9	37