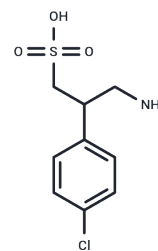


Saclofen

Chemical Properties

CAS No. :	125464-42-8
Formula:	C ₉ H ₁₂ ClNO ₃ S
Molecular Weight:	249.71
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Saclofen is a sulfonic analog of the inhibitory neurotransmitter γ -aminobutyric acid (GABA) that acts as a competitive antagonist of the GABAB receptor (IC ₅₀ : 7.8 μ M). ¹ This compound can be used to determine the functional roles for the GABAB receptor as a mediator of slow inhibitory postsynaptic potentials in the brain.
Targets(IC ₅₀)	GABA Receptor
In vivo	CCT241736 significantly inhibited the growth of MV4-11 human FLT3-ITD positive AML tumor xenografts in vivo, with biomarker modulation and free drug exposure consistent with dual FLT3 and Aurora kinase target inhibition

Solubility Information

Solubility	DMSO: 5.5 mg/mL (22.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0046 mL	20.0232 mL	40.0465 mL
5 mM	0.8009 mL	4.0046 mL	8.0093 mL
10 mM	0.4005 mL	2.0023 mL	4.0046 mL
50 mM	0.0801 mL	0.4005 mL	0.8009 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Drew C A, Johnston G A R, Kerr D I B, et al. Inhibition of baclofen binding to rat cerebellar membranes by phaclofen, saclofen, 3-aminopropylphosphonic acid and related GABAB receptor antagonists[J]. Neuroscience letters, 1990, 113(1): 107-110.

Wang Y J, Zan G Y, Xu C, et al. The claustrum-prelimbic cortex circuit through dynorphin/ κ -opioid receptor signaling underlies depression-like behaviors associated with social stress etiology. Nature Communications. 2023, 14(1): 7903.

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