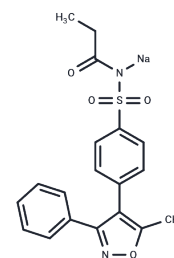


Parecoxib sodium

Chemical Properties

CAS No. :	198470-85-8
Formula:	C ₁₉ H ₁₇ N ₂ NaO ₄ S
Molecular Weight:	392.4
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Parecoxib sodium is a prodrug of Valdecoxib and a selective, orally active COX-2 inhibitor that suppresses prostaglandin (PG) synthesis and alleviates pain and inflammation. Parecoxib sodium also acts as a cannabinoid 1 (CB1) receptor agonist (EC ₅₀ =2.4 μM).
Targets(IC ₅₀)	Cannabinoid Receptor, COX
In vitro	Parecoxib sodium (0-200 μM; 24-48 h) dose-dependently inhibited GBM cell proliferation in GBM cells [4]. Parecoxib sodium (200 μM; 24-48 h) suppressed the migration capacity of U343 cells [4].
In vivo	Parecoxib sodium (2.5/5.0/10 mg/kg; intraperitoneal injection; once daily; 21 days) exhibited anxiolytic effects in the upright maze test and enhanced memory performance in the novel object recognition and Y-maze tests [3].

Solubility Information

Solubility	DMSO: 80.00 mg/mL (203.87 mM), Sonication is recommended. H ₂ O: 80.00 mg/mL (203.87 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	2.5484 mL	12.7421 mL	25.4842 mL
5 mM	0.5097 mL	2.5484 mL	5.0968 mL
10 mM	0.2548 mL	1.2742 mL	2.5484 mL
50 mM	0.051 mL	0.2548 mL	0.5097 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

Talley JJ, et al. N-[[[(5-methyl-3-phenylisoxazol-4-yl)-phenyl]sulfonyl]propanamide, sodium salt, parecoxib sodium: A potent and selective inhibitor of COX-2 for parenteral administration. *J Med Chem.* 2000;43(9):1661-1663.

Schröder H, et al. Parecoxib and its metabolite valdecoxib directly interact with cannabinoid binding sites in CB1-expressing HEK 293 cells and rat brain tissue. *Neurochem Int.* 2011;58(1):9-13.

Bo Wang, et al. Chronic administration of parecoxib exerts anxiolytic-like and memory enhancing effects and modulates synaptophysin expression in mice. *BMC Anesthesiol.* 2017 Nov 13;17(1):152.

Lin-Yong Li, et al. Parecoxib inhibits glioblastoma cell proliferation, migration and invasion by upregulating miRNA-29c. *Biol Open.* 2017 Mar 15;6(3):311-316.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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