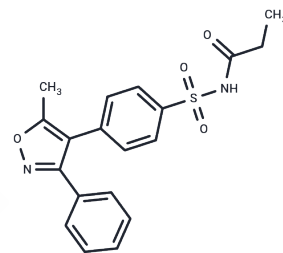


Parecoxib

Chemical Properties

CAS No. :	198470-84-7
Formula:	C ₁₉ H ₁₈ N ₂ O ₄ S
Molecular Weight:	370.42
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Parecoxib (SC 69124) is an effective and selective COX-2 inhibitor.
Targets(IC50)	COX
In vivo	Parecoxib, a selected cyclooxygenase-2 inhibitor, ameliorates neurologic deficits in the behavior studies and brain damage, including neuronal death, and brain edema in the MCP-1 and NeuN immunostaining in rats subjected to SAH(Subarachnoid Hemorrhage). Parecoxib is able to reduce early COX2 expression via inhibiting cJNK (p55) expression (dose-dependently), reduce IL-1 β , IL-6 and MCP-1(at 2000 ug/kg/day at the time point of 24hr and 72hr after the induction of SAH), IL-8 (of the dosage of 2000 ug/kg/day at 24hr after the induction of SAH), and also reduce cleaved caspase-1 (at 1000 and 2000 ug/kg/day) and Caspase-9a (at 2000 ug/kg/day). Parecoxib reduces the NMDAR-1, and NMDAR-2a (at 1000 and 2000 ug/kg) after the induction of SAH[2].

Solubility Information

Solubility	Ethanol: 2 mg/mL (5.4 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (134.98 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	2.6996 mL	13.4982 mL	26.9964 mL
5 mM	0.5399 mL	2.6996 mL	5.3993 mL
10 mM	0.270 mL	1.3498 mL	2.6996 mL
50 mM	0.054 mL	0.270 mL	0.5399 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.

Reference

Meunier A, et al. Arch Orthop Trauma Surg. 2006, 126(7):433-6.

Chih-Zen Chang, et al. Journal of Neurology & Neurophysiology. 2015.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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