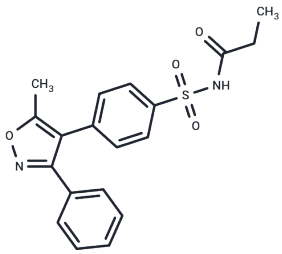
Data Sheet (Cat.No.T1780)

TargetMol

Parecoxib

Chemical Properties



CAS No. : 198470-84-7

Formula: C19H18N2O4S

Molecular Weight: 370.42

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	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-1β, 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: 252.5 mg/mL (681.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (27 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (27 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

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.

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

Meunier A, et al. Arch Orthop Trauma Surg. 2006, 126(7):433-6.
Chih-Zen Chang, et al. Journal of Neurology & Neurophysiology. 2015.