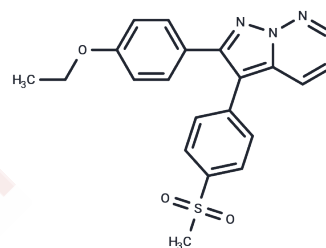


GW-406381

Chemical Properties

CAS No. :	221148-46-5
Formula:	C ₂₁ H ₁₉ N ₃ O ₃ S
Molecular Weight:	393.46
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	GW-406381 is a highly selective COX-2 inhibitor acting peripherally and centrally, reducing spontaneous ectopic discharges in rat sural nerves following chronic compressive injury. It is suitable for studying central sensitisation and inflammatory pain.
Targets(IC50)	COX

Solubility Information

Solubility	DMSO: 80 mg/mL (203.32 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (8.39 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5416 mL	12.7078 mL	25.4155 mL
5 mM	0.5083 mL	2.5416 mL	5.0831 mL
10 mM	0.2542 mL	1.2708 mL	2.5416 mL
50 mM	0.0508 mL	0.2542 mL	0.5083 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

Zhao FY, et al. GW406381, a novel COX-2 inhibitor, attenuates spontaneous ectopic discharge in sural nerves of rats following chronic constriction injury. *Pain*. 2007 Mar;128(1-2):78-87.

Boswell DJ, et al. Evaluation of GW406381 for treatment of osteoarthritis of the knee: two randomized, controlled studies. *Medscape J Med*. 2008;10(11):259.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481