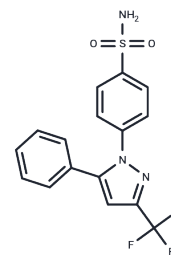


Desmethyl Celecoxib

Chemical Properties

CAS No. :	170569-87-6
Formula:	C16H12F3N3O2S
Molecular Weight:	367.35
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	Desmethyl celecoxib is a selective inhibitor of COX-2 with anti-inflammatory activity (IC50 of 32 nM). with anti-inflammatory activities. Desmethyl Celecoxib is an analog of Celecoxib and with the optimal yield of 75%.
Targets(IC50)	COX

Solubility Information

Solubility	DMSO: 70 mg/mL (190.55 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: 2 mg/mL (5.44 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	2.7222 mL	13.611 mL	27.222 mL
5 mM	0.5444 mL	2.7222 mL	5.4444 mL
10 mM	0.2722 mL	1.3611 mL	2.7222 mL
50 mM	0.0544 mL	0.2722 mL	0.5444 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

Vinay Kumar Sthalam, et al. An Integrated Continuous Flow Micro-Total Ultrafast Process System (μ -TUFPS) for the Synthesis of Celecoxib and Other Cyclooxygenase Inhibitors. RETURN TO ISSUEPREVARTICLENEXT

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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