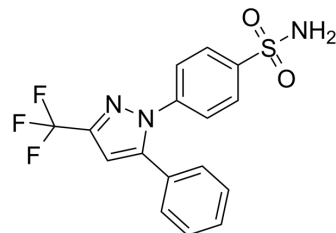


Desmethyl Celecoxib

Cat. No.:	HY-118139	
CAS No.:	170569-87-6	
Molecular Formula:	C ₁₆ H ₁₂ F ₃ N ₃ O ₂ S	
Molecular Weight:	367.35	
Target:	COX	
Pathway:	Immunology/Inflammation	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (680.55 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7222 mL	13.6110 mL	27.2220 mL
	5 mM	0.5444 mL	2.7222 mL	5.4444 mL
	10 mM	0.2722 mL	1.3611 mL	2.7222 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (5.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (5.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Desmethyl Celecoxib (compound 3b) is a selective cyclooxygenase-2 (COX-2) inhibitor (IC₅₀=32 nM) with anti-inflammatory activities. Desmethyl Celecoxib is an analog of Celecoxib and with the optimal yield of 75%^[1].

IC₅₀ & Target

COX-2
32 nM (IC₅₀)

REFERENCES

[1]. 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

Caution: Product has not been fully validated for medical applications. For research use only.

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