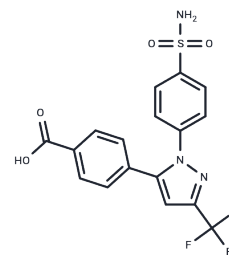


Celecoxib Carboxylic Acid

Chemical Properties

CAS No. :	170571-01-4
Formula:	C ₁₇ H ₁₂ F ₃ N ₃ O ₄ S
Molecular Weight:	411.36
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	Celecoxib carboxylic acid is an inactive metabolite of the COX-2 inhibitor celecoxib. It is formed from celecoxib primarily by the cytochrome P450 (CYP) isoform CYP2C9.
Targets(IC50)	Others, COX

Solubility Information

Solubility	DMF: 30 mg/mL (72.93 mM), Sonication is recommended. Ethanol: 30 mg/mL (72.93 mM), Sonication is recommended. PBS (pH 7.2): Slightly soluble Ethanol:PBS (pH 7.2) (1:6): 0.12 mg/mL (0.29 mM), Sonication is recommended. DMSO: 30 mg/mL (72.93 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	2.431 mL	12.1548 mL	24.3096 mL
5 mM	0.4862 mL	2.431 mL	4.8619 mL
10 mM	0.2431 mL	1.2155 mL	2.431 mL
50 mM	0.0486 mL	0.2431 mL	0.4862 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

Liu, H., Huang, X., Shen, J., et al. Inhibitory mode of 1,5-diarylpyrazole derivatives against cyclooxygenase-2 and cyclooxygenase-1: Molecular docking and 3D QSAR analyses. *J. Med. Chem.* 45(22):4816-4827(2002)

Kim, S.-H., Kim, D.-H., Byeon, J.-Y., et al. Effects of CYP2C9 genetic polymorphisms on the pharmacokinetics of celecoxib and its carboxylic acid metabolite. *Arch. Pharm. Res.* 40(3):382-390(2017)

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