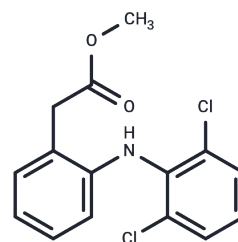


Diclofenac methyl ester

Chemical Properties

CAS No. :	15307-78-5
Formula:	C ₁₅ H ₁₃ Cl ₂ NO ₂
Molecular Weight:	310.18
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	Diclofenac methyl ester is a hydrophobic prodrug form of diclofenac which is a non-steroidal anti-inflammatory drug (NSAID). Diclofenac methyl ester is more soluble than diclofenac acid in isopropylmyristate but with higher toxicity.
Targets(IC50)	Others,Endogenous Metabolite,Drug Metabolite

Solubility Information

Solubility	DMF:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.81 mM),Sonication is recommended. DMF: 10 mg/mL (32.24 mM),Sonication is recommended. DMSO: 5 mg/mL (16.12 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	3.2239 mL	16.1197 mL	32.2393 mL
5 mM	0.6448 mL	3.2239 mL	6.4479 mL
10 mM	0.3224 mL	1.612 mL	3.2239 mL
50 mM	0.0645 mL	0.3224 mL	0.6448 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

Fu Q, Fedrizzi D, et al. Biotransformation Changes Bioaccumulation and Toxicity of Diclofenac in Aquatic Organisms. Environ Sci Technol. 2020 Apr 7;54(7):4400-4408.

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