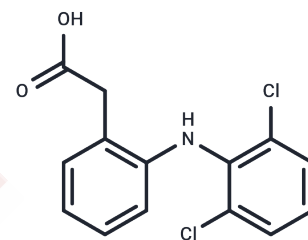


Diclofenac

Chemical Properties

CAS No. :	15307-86-5
Formula:	C ₁₄ H ₁₁ Cl ₂ NO ₂
Molecular Weight:	296.15
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Diclofenac (Diclofenacum) is a nonsteroidal benzeneacetic acid derivative with anti-inflammatory activity. Diclofenac binds and chelates both isoforms of cyclooxygenase (COX-1 and -2), thereby blocking the conversion of arachidonic acid to pro-inflammatory-prostaglandins.
Targets(IC50)	Apoptosis, COX

Solubility Information

Solubility	DMSO: 160 mg/mL (540.27 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: 4 mg/mL (13.51 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	3.3767 mL	16.8833 mL	33.7667 mL
5 mM	0.6753 mL	3.3767 mL	6.7533 mL
10 mM	0.3377 mL	1.6883 mL	3.3767 mL
50 mM	0.0675 mL	0.3377 mL	0.6753 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

Prokkola JM, et al. *Aquat Toxicol.* 2015 Jan;158:116-24.

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