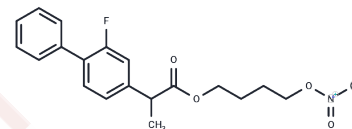


Nitroflurbiprofen

Chemical Properties

CAS No. : 158836-71-6
 Formula: C₁₉H₂₀FNO₅
 Molecular Weight: 361.36
 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	Nitroflurbiprofen (Nitroxybutyl flurbiprofen) is a NO-releasing COX inhibitor and modulates the increased intrahepatic vascular tone in portal hypertensive cirrhotic rats.
Targets(IC50)	COX
In vivo	Nitroflurbiprofen (45 mg/kg; i.p.) improves portal hypertension without major adverse effects in thioacetamide-induced cirrhotic rats by attenuating intrahepatic vascular resistance, endothelial dysfunction, and hepatic hyperreactivity to vasoconstrictors[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (152.2 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: 5 mg/mL (13.84 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	2.7673 mL	13.8366 mL	27.6732 mL
5 mM	0.5535 mL	2.7673 mL	5.5346 mL
10 mM	0.2767 mL	1.3837 mL	2.7673 mL
50 mM	0.0553 mL	0.2767 mL	0.5535 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

Laleman W, et al. Nitroflurbiprofen, a nitric oxide-releasing cyclooxygenase inhibitor, improves cirrhotic portalhypertension in rats. *Gastroenterology*. 2007 Feb;132(2):709-19.

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