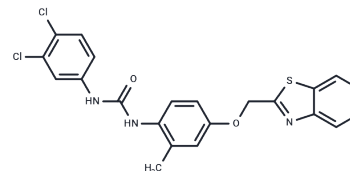


Diflapolin

Chemical Properties

CAS No. :	724453-98-9
Formula:	C ₂₂ H ₁₇ Cl ₂ N ₃ O ₂ S
Molecular Weight:	458.36
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Diflapolin is a highly active dual 5-lipoxygenase-activating protein (FLAP)/soluble epoxide hydrolase (sEH) inhibitor with marked anti-inflammatory efficacy and high target selectivity.
Targets(IC ₅₀)	Others,FLAP,Epoxide Hydrolase
In vitro	Diflapolin inhibits 5-LOX product formation in intact human monocytes and neutrophils with IC ₅₀ s of 30 and 170 nM, respectively, and suppressed the activity of isolated sEH (IC ₅₀ =20 nM).
In vivo	Diflapolin (1-10 mg/kg; i.p.; 30 min before zymosan injection) exhibits potent anti-inflammatory properties in in-vivo experiments

Solubility Information

Solubility	DMSO: 84mg/mL (183.26mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1817 mL	10.9085 mL	21.8169 mL
5 mM	0.4363 mL	2.1817 mL	4.3634 mL
10 mM	0.2182 mL	1.0908 mL	2.1817 mL
50 mM	0.0436 mL	0.2182 mL	0.4363 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.

Reference

Garscha U, Romp E, Pace S, et al. Pharmacological profile and efficiency in vivo of diflapolin, the first dual inhibitor of 5-lipoxygenase-activating protein and soluble epoxide hydrolase. Sci Rep. 2017;7(1):9398. Published 2017 Aug

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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