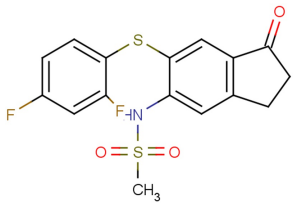
Data Sheet (Cat.No.T15687)

TargetMol
A DRUG SCREENING EXPERT

Thioflosulide

Chemical Properties



CAS No.:	158205-05-1
Formula:	C16H13F2NO3S2
Molecular Weight:	369.41
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Thioflosulide is a selective cyclooxygenase-2 inhibitor (IC50: 2.3 nM). It also shows anti-inflammatory activity.
Targets(IC_{50})	COX-2: 2.3 nM
In vivo	Thioflosulide (L-745337) shows anti-inflammatory activity, with an effective dose of 0.4 mg/kg, and the maximal anti-inflammation dose of 5 mg/kg in arthritic rats [2]. In a rat model of postoperative pain, Thioflosulide (40-80 μg, intrathecal) coadministered with intrathecal morphine (0.5 nmol) increases the withdrawal thresholds in a dose-dependent manner. Adding 80 μg Thioflosulide to 1 nmol morphine produces an antiallodynic effect greater than that of morphine at twice the dose. Thioflosulide (0-30 mg/kg, s.c.) combined with intrathecal morphine results in the same antiallodynic response as morphine alone [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.707 mL	13.535 mL	27.07 mL
5 mM	0.541 mL	2.707 mL	5.414 mL
10 mM	0.271 mL	1.354 mL	2.707 mL
50 mM	0.054 mL	0.271 mL	0.541 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Kroin JS, et al. Cyclooxygenase-2 inhibition potentiates morphine antinociception at the spinal level in a postoperative pain model. Reg Anesth Pain Med. 2002 Sep-Oct;27(5):451-5.
2. Turull N, et al. Effect of the COX-2 selective inhibitor l-745,337 on inflammation and organ prostaglandin E2 (PGE2) levels in adjuvant arthritic rats. Inflammation. 2000 Dec;24(6):533-45.
3. Li CS, et al. Cyclooxygenase-2 inhibitors. Synthesis and pharmacological activities of 5-methanesulfonamido-1-indanone derivatives. J Med Chem. 1995 Dec 8;38(25):4897-905.

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