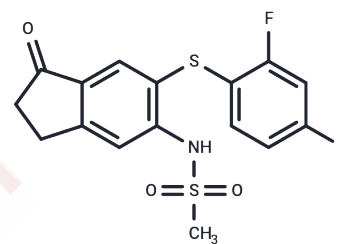


Thioflosulide

Chemical Properties

CAS No. :	158205-05-1
Formula:	C ₁₆ H ₁₃ F ₂ N ₃ O ₃ S ₂
Molecular Weight:	369.41
Storage:	Store at low temperature 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	Thioflosulide (L-745337) is a selective and potent COX2 inhibitor with an IC ₅₀ of 2.3 nM, exhibiting anti-inflammatory activity for the study of gastric ulcers.
Targets(IC ₅₀)	COX
In vivo	In a rat model of postoperative pain, Thioflosulide (L-745337) coadministered intrathecally (40-80 µg) with intrathecal morphine (0.5 nmol) increases withdrawal thresholds dose-dependently. Adding 80 µg of Thioflosulide to 1 nmol of morphine produces a greater antiallodynic effect than morphine at twice the dose. When combined with intrathecal morphine, subcutaneous administration of Thioflosulide (0-30 mg/kg) results in the same antiallodynic response as morphine alone. Thioflosulide also exhibits anti-inflammatory activity, with an effective dose of 0.4 mg/kg and a maximal anti-inflammation dose of 5 mg/kg in arthritic rats.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.707 mL	13.5351 mL	27.0702 mL
5 mM	0.5414 mL	2.707 mL	5.414 mL
10 mM	0.2707 mL	1.3535 mL	2.707 mL
50 mM	0.0541 mL	0.2707 mL	0.5414 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

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.

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.

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.

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