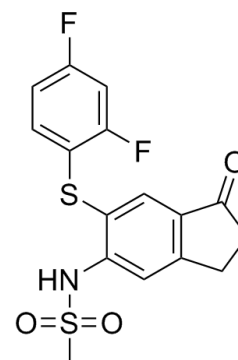


## Thioflosulide

Cat. No.:	HY-19217
CAS No.:	158205-05-1
Molecular Formula:	C <sub>16</sub> H <sub>13</sub> F <sub>2</sub> NO <sub>3</sub> S <sub>2</sub>
Molecular Weight:	369.41
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Thioflosulide (L-745337) is a selective <b>cyclooxygenase-2 (COX2)</b> inhibitor, with an IC <sub>50</sub> of 2.3 nM, and shows anti-inflammatory activity.
<b>IC<sub>50</sub> &amp; Target</b>	COX-2 2.3 nM (IC <sub>50</sub> )
<b>In Vivo</b>	In a rat model of postoperative pain, Thioflosulide (L-745337) (40-80 µg, intrathecal) coadministered with intrathecal morphine (0.5 nmol) increases the withdrawal thresholds in a dose-dependent manner. Adding 80 µg Thioflosulide (L-745337) to 1 nmol morphine produces an antiallodynic effect greater than that of morphine at twice the dose. Thioflosulide (L-745337) (0-30 mg/kg, s.c.) combined with intrathecal morphine results in the same antiallodynic response as morphine alone <sup>[1]</sup> . Thioflosulide (L-745337) shows anti-inflammatory activity, with the effective-dose of 0.4 mg/kg, and the maximal anti-inflammation dose of 5 mg/kg in arthritic rats <sup>[2]</sup> .

### REFERENCES

- [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 I-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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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