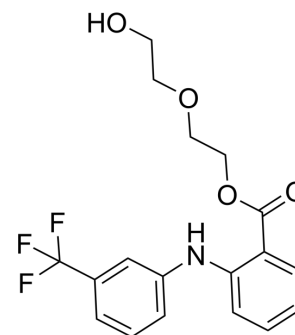


Etofenamate

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-17361 | | |
| CAS No.: | 30544-47-9 | | |
| Molecular Formula: | C ₁₈ H ₁₈ F ₃ NO ₄ | | |
| Molecular Weight: | 369.34 | | |
| Target: | COX | | |
| Pathway: | Immunology/Inflammation | | |
| Storage: | Pure form | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 120 mg/mL (324.90 mM; Need ultrasonic)
 DMSO : ≥ 50 mg/mL (135.38 mM)
 * "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent | | Mass | | |
|---------------------------|---------------|--|-----------|------------|------------|
| | Concentration | | 1 mg | 5 mg | 10 mg |
| | 1 mM | | 2.7075 mL | 13.5377 mL | 27.0753 mL |
| | 5 mM | | 0.5415 mL | 2.7075 mL | 5.4151 mL |
| | 10 mM | | 0.2708 mL | 1.3538 mL | 2.7075 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Etofenamate, a non-steroid anti-inflammatory agent (NSAID) and a non-selective COX inhibitor, possesses analgesic, anti-rheumatic, antipyretic and anti-inflammatory properties. Etofenamate is used in the research for osteoarthritis, arthritis and other inflammatory diseases^{[1][2][3]}.

REFERENCES

- [1]. Bender T, Bariska J, Rojkovich B, Bálint G. Etofenamate levels in human serum and synovial fluid following iontophoresis. *Arzneimittelforschung*. 2001;51(6):489-92.
- [2]. Fraga A, de Almeida M, Moreira-da-Silva V et al. Intramuscular Etofenamate versus Diclofenac in the Relief of Renal Colic : A Randomised, Single-Blind, Comparative Study. *Clin Drug Investig*. 2003;23(11):701-6.
- [3]. Joana Marto, et al. Topical gels of etofenamate: in vitro and in vivo evaluation. *Pharm Dev Technol*. 2015;20(6):710-5.
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Caution: Product has not been fully validated for medical applications. For research use only.

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