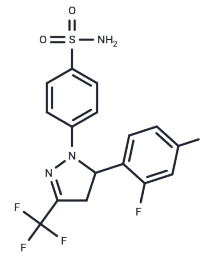


Enflicoxib

Chemical Properties

CAS No. :	251442-94-1
Formula:	C ₁₆ H ₁₂ F ₅ N ₃ O ₂ S
Molecular Weight:	405.34
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Enflicoxib is an efficacious and safe agent for the treatment of pain and inflammation across all stages of canine osteoarthritis. Enflicoxib demonstrates a faster onset of action compared to mavacoxib, offering an improved pharmacological profile for veterinary applications.
Targets(IC50)	Others,COX
In vivo	Pharmacokinetic studies of Enflicoxib were conducted following single oral and intravenous administration in rats and dogs. In both animal species, E-6087 was characterized by a long elimination half-life (20-35 hours), low plasma clearance (0.10-0.22 l h ⁻¹ kg ⁻¹), and a relatively large volume of distribution (2-6 l kg ⁻¹). Oral bioavailability was lower in dogs compared to rats, while absorption occurred more rapidly in rats. [2]

Solubility Information

Solubility	DMSO: 80 mg/mL (197.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4671 mL	12.3353 mL	24.6706 mL
5 mM	0.4934 mL	2.4671 mL	4.9341 mL
10 mM	0.2467 mL	1.2335 mL	2.4671 mL
50 mM	0.0493 mL	0.2467 mL	0.4934 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

- Carlos Pérez-Maseda, et al. Determination of enantiomeric purity of a novel COX-2 anti-inflammatory drug by capillary electrophoresis using single and dual cyclodextrin systems. *Electrophoresis*. 2003 May;24(9):1416-21.
- R F Reinoso, et al. Pharmacokinetics of E-6087, a new anti-inflammatory agent, in rats and dogs. *Biopharm Drug Dispos*. 2001 Sep;22(6):231-42.
- Reinoso RF, Farrán R, Moragón T, García-Soret A, Martínez L. Pharmacokinetics of E-6087, a new anti-inflammatory agent, in rats and dogs. *Biopharm Drug Dispos*. 2001 Sep;22(6):231-42. PubMed PMID: 11754039.
- Wagemakers M, van der Wal GE, Cuberes R, Alvarez I, Andrés EM, Buxens J, Vela JM, Moorlag H, Mooij JJ, Molema G. COX-2 Inhibition Combined with Radiation Reduces Orthotopic Glioma Outgrowth by Targeting the Tumor Vasculature. *Transl Oncol*. 2009 Mar;2(1):1-7. PubMed PMID: 19252746; PubMed Central PMCID: PMC2647697.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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