

Product Data Sheet

Product Name: Enflicoxib

Cat. No.: GC63804

Chemical Properties

Cas. No. 251442-94-1

Formula C₁₆H₁₂F₅N₃O₂S

M.Wt 405.34

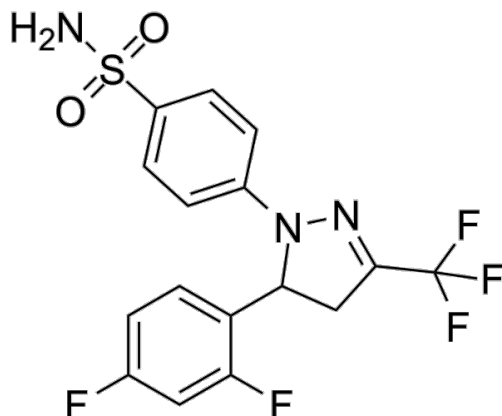
Solubility DMSO : 100 mg/mL (246.71 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Enflicoxib (E 6087) is a nonsteroidal anti-inflammatory compound that selectively inhibits cyclooxygenase-2 (COX-2). Enflicoxib does not inhibit cyclooxygenase-1 (COX-1). E-6087 shows anti-inflammatory, analgesic and antipyretic activities in animal models[1].

E-6132, one of Enflicoxib (E-6087) metabolites, also inhibits COX-2. After single oral administration of 5 mg/kg of E-6087 to rats, plasma concentrations of Enflicoxib at peak time are higher than those

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of E-6132, suggesting that activity is mainly due to Enflicoxib[1]. Enflicoxib (E-6087) is characterized by a long elimination half-life (20-35 h), a low plasma clearance (0.10-0.22 L/h/kg) and a relatively large volume of distribution (2-6 L/kg) in rats and dogs after single oral and intravenous doses. Enflicoxib and E-6132 (a pharmacologically active metabolite) show different pharmacokinetics. The higher percentage of Enflicoxib at early times suggests that Enflicoxib is the main compound responsible for in vivo activity, although E-6132 would contribute to the activity at later times[2].

[1]. 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.

[2]. 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.

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