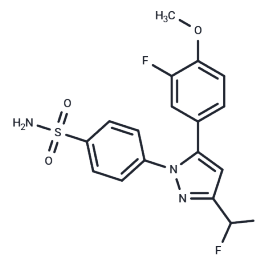


Deracoxib

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 169590-41-4 |
| Formula: | C ₁₇ H ₁₄ F ₃ N ₃ O ₃ S |
| Molecular Weight: | 397.37 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|----------------------------|---|
| Description | Deracoxib (SC 46) is a non-steroidal, non-narcotic anti-inflammatory drug. It is also a selective cyclooxygenase-2 inhibitor, and IC ₅₀ Value: 70 to 150 μM (inhibition of 3 osteosarcoma cell lines). |
| Targets(IC ₅₀) | Apoptosis, COX |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 60 mg/mL (150.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.03 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.5165 mL | 12.5827 mL | 25.1655 mL |
| 5 mM | 0.5033 mL | 2.5165 mL | 5.0331 mL |
| 10 mM | 0.2517 mL | 1.2583 mL | 2.5165 mL |
| 50 mM | 0.0503 mL | 0.2517 mL | 0.5033 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

Ustün Alkan F, et al. ScientificWorldJournal. 2012;2012:976740.

Kaduk J A, Gindhart A M, Gates-Rector S, et al. Crystal structure of deracoxib, C₁₇H₁₄F₃N₃O₃S. Powder Diffraction. 2023: 1-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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