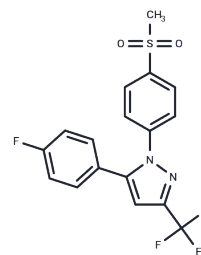


SC-58125

Chemical Properties

CAS No. : 162054-19-5
 Formula: C₁₇H₁₂F₄N₂O₂S
 Molecular Weight: 384.35
 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	SC-58125 is a selective cyclooxygenase 2 (COX-2) inhibitor, with an IC ₅₀ of 0.04 μM. SC-58125 exhibits antitumor activity in vitro and in vivo, and it also can inhibit edema at the inflammatory site and is analgesic
Targets(IC ₅₀)	COX
In vitro	SC-58125 treatment on the growth of human colon carcinoma cells in nude mice. Delaying treatment by 2, 4, or 7 weeks following implantation of the carcinoma cells resulted in a significant inhibition of tumor growth. Furthermore, short-term (48 hours) treatment with SC-58125 was sufficient to attenuate tumor growth for up to 15 days. SC-58125 treatment did not alter the rate at which cells underwent apoptosis, but did result in a delayed progression through the cell cycle at the G ₂ /M transition. Accordingly, p34(cdc2) protein levels and activity were decreased following SC-58125 treatment. SC-58125 primarily exerts a cytostatic effect in vivo, which is likely to be mediated through inhibition of progression through the G ₂ /M phase of the cell cycle

Solubility Information

Solubility	DMSO: 9 mg/mL (23.42 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	2.6018 mL	13.009 mL	26.018 mL
5 mM	0.5204 mL	2.6018 mL	5.2036 mL
10 mM	0.2602 mL	1.3009 mL	2.6018 mL
50 mM	0.052 mL	0.2602 mL	0.5204 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

Williams C S , Sheng H , Brockman J A , et al. A Cyclooxygenase-2 Inhibitor (SC-58125) Blocks Growth of Established Human Colon Cancer Xenografts[J]. Neoplasia (New York, N.Y.), 2001, 3(5).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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