

Anti-inflammatory agent 52

Chemical Properties

CAS No. :

Formula: C₂₄H₂₁ClN₂O₃S

Molecular Weight: 452.95

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	Anti-inflammatory agent 52 (compound 7j) is an orally active, selective COX-2 inhibitor that induces G2/M phase arrest and exhibits anti-HT29 transfer activity. It demonstrates moderate anti-inflammatory efficacy and a notable safety profile, and uniquely inhibits tumor growth in mouse models, indicative of its anticancer properties [1].
Targets(IC50)	COX
In vitro	Anti-inflammatory agent 52 (compound 7j) at 0.25 µM for 24 hours inhibits colony formation in HT29 cells and induces G2/M phase cell cycle arrest [1].
In vivo	Anti-inflammatory agent 52, also known as compound 7j, at a dosage of 50 mg/kg administered orally every other day for two weeks, was found to reduce tumor volume and weight in mice with Ehrlich solid carcinoma [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2077 mL	11.0387 mL	22.0775 mL
5 mM	0.4415 mL	2.2077 mL	4.4155 mL
10 mM	0.2208 mL	1.1039 mL	2.2077 mL
50 mM	0.0442 mL	0.2208 mL	0.4415 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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