

Anti-inflammatory agent 53

Chemical Properties

CAS No. :

Formula: C₂₄H₂₂N₂O₄S

Molecular Weight: 434.51

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 7c) is an orally active, selective COX-2 inhibitor with demonstrated anti-HT29 metastatic activity, causing periodic arrest in the S phase and G2/M phase. This agent exhibits moderate anti-inflammatory efficacy alongside a notable safety profile. Additionally, it possesses the uncommon capability of inhibiting tumor development in a mouse model, indicative of anti-cancer properties [1].
Targets(IC50)	COX
In vitro	Anti-inflammatory agent 53 (compound 7c) at 0.25 µM over 24 hours inhibits colony formation in HT29 cells and induces cell cycle arrest at G2/M and S phases [1].
In vivo	Anti-inflammatory agent 53 (compound 7c), administered orally at 50 mg/kg every other day for two weeks, effectively reduced tumor volume and weight in mice with Ehrlich's ascites carcinoma [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3014 mL	11.5072 mL	23.0144 mL
5 mM	0.4603 mL	2.3014 mL	4.6029 mL
10 mM	0.2301 mL	1.1507 mL	2.3014 mL
50 mM	0.046 mL	0.2301 mL	0.4603 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481