

COX-2-IN-31

Chemical Properties

CAS No. :

Formula: C17H16N6O4S

Molecular Weight: 400.41

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	COX-2-IN-31 (compound 7b) is an orally active dual inhibitor targeting COX-2 (IC50=60 nM) and 5-LOX (IC50=1.9 μM), and also inhibits transmembrane hCA IX (Ki=48.9 nM) and hCA XII (Ki=5.8 nM), demonstrating anti-inflammatory and analgesic activity [1].
Targets(IC50)	COX
In vitro	In the carbonic anhydrase inhibition assay, COX-2-IN-31 (compound 7b) effectively inhibited hCA IX and XII with K values within the nanomolar range (48.9 nM and 5.8 nM) [1].
In vivo	COX-2-IN-31 (compound 7b), administered orally at 10 mg/kg, demonstrated analgesic activity by significantly reducing writhing episodes in mice and decreasing paw edema height in carrageenan-induced rat paw edema tests while exhibiting gastric safety in albino male rats at this dose level [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4974 mL	12.4872 mL	24.9744 mL
5 mM	0.4995 mL	2.4974 mL	4.9949 mL
10 mM	0.2497 mL	1.2487 mL	2.4974 mL
50 mM	0.0499 mL	0.2497 mL	0.4995 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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