

COX-2/PI3K-IN-2

Chemical Properties

CAS No. :

Formula: C16H17N5O2

Molecular Weight: 311.34

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/PI3K-IN-2 (compound 5f) possesses anti-inflammatory and anti-cancer properties, functioning as a selective inhibitor of COX-2 (Ki = 3.02 nM) and a potent inhibitor of PI3K (IC50 = 2.78 nM) [1].
Targets(IC50)	Others,COX,PI3K
In vitro	COX-2/PI3K-IN-2 (compound 5f), at concentrations of 50-500 µg/mL over 72 hours, demonstrates significant antitumor effects on Breast cancer (MCF-7) cells with 40% cell death at 1.65 µM. At 10-150 µg/mL, it also exhibits antioxidant capabilities, with H2O2 scavenging comparable to ascorbic acid and stronger lysozyme inhibition (IC50=3.25 nM), highlighting its dual functional capacity in anticancer activity and antioxidant properties.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2119 mL	16.0596 mL	32.1192 mL
5 mM	0.6424 mL	3.2119 mL	6.4238 mL
10 mM	0.3212 mL	1.606 mL	3.2119 mL
50 mM	0.0642 mL	0.3212 mL	0.6424 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481