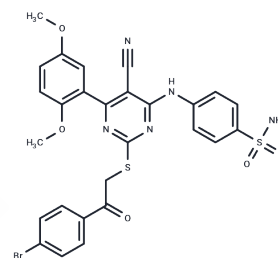


Carbonic anhydrase inhibitor 12

Chemical Properties

CAS No. :	2883451-38-3
Formula:	C ₂₇ H ₂₂ BrN ₅ O ₅ S ₂
Molecular Weight:	640.53
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	Carbonic Anhydrase Inhibitor 12 is a potent inhibitor of CA II, with additional inhibitory activity against CA I, exhibiting K_i values of 1.72 nM for CA II and 271 nM for CA I. Moreover, it demonstrates significant anticancer activity across various cancer cell lines [1].
Targets(IC50)	Carbonic Anhydrase
In vitro	Compound 14h, a carbonic anhydrase inhibitor 12 at a concentration of 10 μ M for 48 hours (single dose), significantly affects the specificity and the inhibitory potency across various cancer cell lines [1]. At concentrations of 2.4 μ M in MCF-7 and 2.5 μ M in MDA-MB-231 for the same duration, the compound induces cell cycle arrest at the G2/M phase and increases both early and late apoptotic phases relative to control untreated cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5612 mL	7.806 mL	15.6121 mL
5 mM	0.3122 mL	1.5612 mL	3.1224 mL
10 mM	0.1561 mL	0.7806 mL	1.5612 mL
50 mM	0.0312 mL	0.1561 mL	0.3122 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