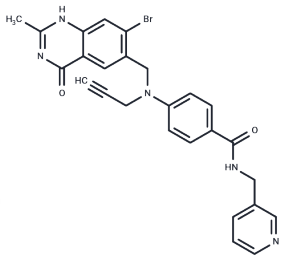
Data Sheet (Cat.No.T14882)

TargetMol

CB30865

Chemical Properties



CAS No. : 206275-15-2

Formula: C26H22BrN5O2

Molecular Weight: 516.39

Storage: Store at low temperature
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	CB30865 (ZM 242421) is a selective and highly effective nicotinamide phosphoribosyltransferase (Nampt) inhibitor with potential antitumor activity.
Targets(IC50)	NAMPT
In vitro	CB30865 showed dramatically increased W1L2 cytotoxicity (EC50=2.8 nM) that was not rescued by precursors or end-products of folate metabolism. CB30865 represents a class of compounds with unique biochemical characteristics such as a delayed, non-phase specific, cell-cycle arrest. [1] CB30865 represents a class of compounds with unique biochemical characteristics such as a delayed, non-phase specific, cell-cycle arrest. [3]

Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble) DMSO: 30 mg/mL (58.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9365 mL	9.6826 mL	19.3652 mL
5 mM	0.3873 mL	1.9365 mL	3.873 mL
10 mM	0.1937 mL	0.9683 mL	1.9365 mL
50 mM	0.0387 mL	0.1937 mL	0.3873 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.

Reference

Lockman JW, et al. Analogues of 4-[(7-Bromo-2-methyl-4-oxo-3H-quinazolin-6-yl)methylprop-2-ynylamino]-N-(3-pyridylmethyl)benzamide (CB-30865) as potent inhibitors of nicotinamide phosphoribosyltransferase (Nampt). J Med Chem. 2010 Dec 23;53(24):8734-8746.

Fleischer TC, et al. Chemical proteomics identifies Nampt as the target of CB30865, an orphan cytotoxic compound. Chem Biol. 2010 Jun 25;17(6):659-664.

Bavetsias V, et al. The design and synthesis of water-soluble analogues of CB30865, a quinazolin-4-one-based antitumor agent. J Med Chem. 2002 Aug 15;45(17):3692-3702.

Skelton LA, et al. Cell cycle effects of CB30865, a lipophilic quinazoline-based analogue of the antifolate thymidylate synthase inhibitor ICI 198583 with an undefined mechanism of action. Cytometry. 1998 Sep 1;33(1):56-66.