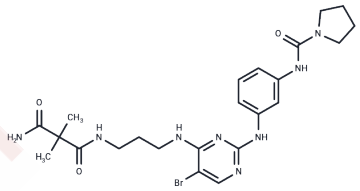
Data Sheet (Cat.No.T37561)

TargetMol

BX-320

Chemical Properties



CAS No. : 702676-93-5

Formula: C23H31BrN8O3

Molecular Weight: 547.45

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	BX-320 is an inhibitor of the serine/threonine kinase 3-phosphoinositide-dependent protein kinase 1 (PDK1; IC50= 30 nM).1It is selective for PDK1 over a panel of 10 additional kinases (IC50s = >820 nM for all). BX-320 inhibits Akt and p70S6K1 phosphorylation in PC3 cells (IC50s = 1-3 μM). It induces apoptosis in, and inhibits the growth of, MDA-MB-468 breast cancer cells (IC50s = 0.5 and 0.6 μM, respectively), as well as inhibits cell growth in a panel of cancer cells (IC50s = 0.12-1.2 μM). BX-320 (200 mg/kg) inhibits the growth of lung tumors in a LOX melanoma mouse model of blood-borne metastasis.
Targets(IC50)	Others,PDK

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8267 mL	9.1333 mL	18.2665 mL
5 mM	0.3653 mL	1.8267 mL	3.6533 mL
10 mM	0.1827 mL	0.9133 mL	1.8267 mL
50 mM	0.0365 mL	0.1827 mL	0.3653 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

Feldman, R.I., Wu, J.M., Polokoff, M.A., et al.Novel small molecule inhibitors of 3-phosphoinositide-dependent kinase-1J. Biol. Chem.280(20)19867-19874(2005)

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