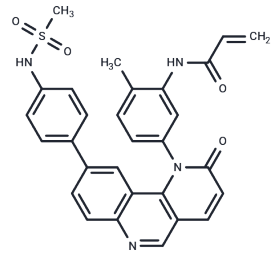
Data Sheet (Cat.No.T14692)

TargetMol

BMX-IN-1

Chemical Properties



CAS No. : 1431525-23-3

Formula: C29H24N4O4S

Molecular Weight: 524.59

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	BMX-IN-1 (BMX kinase inhibitor) is a selective inhibitor of bone marrow tyrosine kinase on chromosome X (BMX, IC50 = 8 nM) and the related Bruton's tyrosine kinase (BTK, IC50 = 10.4 nM), but BMX-IN-1 is more than 47-656 fold less potent against Blk, JAK3, EGFR, Itk, or Tec activity.
Targets(IC50)	BTK
In vitro	BMX-IN-1 inhibits only wild-type BMX with an IC50 of 138 nM. BMX-IN-1 inhibits the proliferation of Tel-BMX-transformed Ba/F3 cells and RV-1 cells with IC50s of 25 nM and 2.53 μM. BMX-IN-1 exhibits remarkable selectivity with an S(10) score of 0.01[1].

Solubility Information

Solubility	DMF: 9 mg/mL (17.16 mM),Sonication is recommended. DMSO: 8 mg/mL (15.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9063 mL	9.5313 mL	19.0625 mL
5 mM	0.3813 mL	1.9063 mL	3.8125 mL
10 mM	0.1906 mL	0.9531 mL	1.9063 mL
50 mM	0.0381 mL	0.1906 mL	0.3813 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.

Reference

Feiyang Liu, et al. Discovery of a Selective Irreversible BMX Inhibitor for Prostate Cancer. ACS Chem. Biol.

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