

BPR1J-340

Chemical Properties

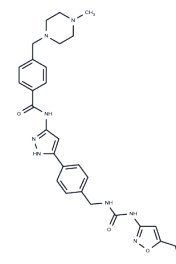
CAS No. : 1395051-72-5

Formula: C₂₉H₃₄N₈O₃

Molecular Weight: 542.63

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	BPR1J-340 is a potent and selective FLT3 inhibitor with potential anticancer activity. BPR1J-340 was identified as a novel potent FLT3 inhibitor by biochemical kinase activity (IC ₅₀ approximately 25 nM) and cellular proliferation (GC ₅₀ approximately 5 nM) assays. BPR1J-340 inhibited the phosphorylation of FLT3 and STAT5 and triggered apoptosis in FLT3-ITD(+) AML cells. The pharmacokinetic parameters of BPR1J-340 in rats were determined. BPR1J-340 also demonstrated pronounced tumor growth inhibition and regression in FLT3-ITD(+) AML murine xenograft models. The combination treatment of the HDAC inhibitor vorinostat (SAHA) with BPR1J-340 synergistically induced apoptosis via Mcl-1 down-regulation in MOLM-13 AML cells, indicating that the combination of selective FLT3 kinase inhibitors and HDAC inhibitors could exhibit clinical benefit in AML therapy.
Targets(IC ₅₀)	Apoptosis,Others,FLT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8429 mL	9.2144 mL	18.4288 mL
5 mM	0.3686 mL	1.8429 mL	3.6858 mL
10 mM	0.1843 mL	0.9214 mL	1.8429 mL
50 mM	0.0369 mL	0.1843 mL	0.3686 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