

BPR1J-097

Chemical Properties

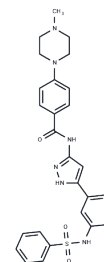
CAS No. : 1327167-19-0

Formula: C₂₇H₂₈N₆O₃S

Molecular Weight: 516.61

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-097) is a novel FLT-3 inhibitor(IC ₅₀ : 11±7 nM) with promising in vivo anti-tumor activities. It also inhibits FLT-3 D835Y (IC ₅₀ : 3 nM).
Targets(IC ₅₀)	FLT
Kinase Assay	Kinase assays: To assay Plk1 and Aurora A kinase activity, cells are lysed after 13 hrs release in the presence of SBE13 after double thymidine block, and kinases are immunoprecipitated from lysates using antibodies as described. In brief, for each immunoprecipitation 800 µg of total protein were incubated with 1.5 µg Plk1 antibody cocktail, 3 µg Plk2 antibody, 3 µg Plk3 antibody, or 5 µg Aurora A antibody, respectively, for 2 hrs at 4°C on a rotator. Immunoprecipitated protein is collected using Protein G Agarose beads. The Plk1, Plk2 and Plk3 immunoprecipitates are incubated with 1 µg casein and with 1 µCi of [γ ³² -P]ATP for 30 min at 37°C in kinase buffer. The Aurora A immunoprecipitates are incubated with 0.5 µl Histone and with 1 µCi of [γ ³² -P]ATP for 60 min at room temperature in kinase buffer. Products from the kinase assays are fractionated on 10% Bis-Tris-polyacrylamide gels, and the phosphorylated substrate is visualized by autoradiography after an exposure of 12 to 36 hrs. An equal amount of immunoprecipitates is subjected to western blot analysis to confirm equal loading of Plk1, Plk2, Plk3 or Aurora A protein in kinase reactions. Immunoprecipitated Plk1 after 13 hrs release in the presence of SBE13 is assayed after de-phosphorylation using λ protein phosphatase and compared to kinase activity of endogenous immunoprecipitated Plk1. Activity of Plk1 kinase with and without de-phosphorylation is compared and the ratio between de-phosphorylated and "normal" endogenous immunoprecipitated Plk1 kinase activity is calculated.

Solubility Information

Solubility	DMSO: 11 mg/mL (21.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9357 mL	9.6785 mL	19.357 mL
5 mM	0.3871 mL	1.9357 mL	3.8714 mL
10 mM	0.1936 mL	0.9678 mL	1.9357 mL
50 mM	0.0387 mL	0.1936 mL	0.3871 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

Lin WH, et al. Br J Y. 2012 Jan 31;106(3):475-81.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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