

Plogosertib

Chemical Properties

CAS No. : 1137212-79-3

Formula: C34H48N8O3

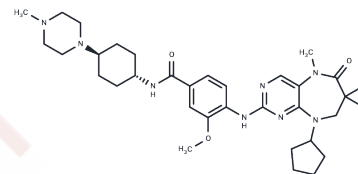
Molecular Weight: 616.797

Keep away from direct sunlight, Keep away from moisture

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	Plogosertib (CYC140) is an orally active, selective, potent, and ATP-competitive PLK1 inhibitor with an IC50 value of 3 nM. Plogosertib exhibits antiproliferative and anticancer activity and can be used for the study of solid and hematologic tumors and hematologic tumors.
Targets(IC50)	PLK
In vitro	In KYSE-410 cells, Plogosertib (0, 0.07, 0.15, 0.3, 0.6, 1.25 μM; 72 hours) inhibits cell proliferation in a concentration-dependent manner[2].
In vivo	In the HL60 promyelocytic leukemia xenograft model, Plogosertib (40, 54, 67 mg/kg, qd 5/2/5; oral administration) inhibited tumor growth (>87%) without significant loss in body weight[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6213 mL	8.1064 mL	16.2127 mL
5 mM	0.3243 mL	1.6213 mL	3.2425 mL
10 mM	0.1621 mL	0.8106 mL	1.6213 mL
50 mM	0.0324 mL	0.1621 mL	0.3243 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

Sylvie Moureau, et al. Abstract 4178: The novel PLK1 inhibitor, CYC140: Identification of pharmacodynamic markers, sensitive target indications and potential combinations. *Cancer Res* (2017) 77 (13_Supplement): 4178.

Moureau S, et al. Therapeutic potential of novel PLK1 inhibitor CYC140 in esophageal cancer and acute leukemia[J]. *European Journal of Cancer*, 2016, 1(69): S117.

Susan Davis, et al. Treatment of proliferative diseases with pyrimidodiazepinones. Patent US20150320762A1.

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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