

Z57346765

Chemical Properties

CAS No. : 1016340-64-9

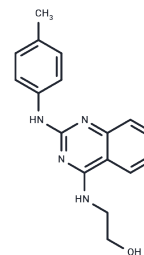
Formula: C₁₇H₁₈N₄O

Molecular Weight: 294.35

Store at low temperature

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	Z57346765 is a specific PGK1 (Phosphoglycerate kinase 1) inhibitor that inhibits PGK1-dependent cell proliferation by decreasing the metabolic enzyme activity of PGK1 during glycolysis. In the clinical phase, Z57346765 had a dose-dependent inhibitory effect on locally advanced renal clear cell carcinoma (KIRC) by inducing changes in the expression of genes related to cell metabolism, DNA replication, and the cell cycle.
Targets(IC50)	Others,PGK1

Solubility Information

Solubility	DMSO: 80 mg/mL (271.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.21 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3973 mL	16.9866 mL	33.9732 mL
5 mM	0.6795 mL	3.3973 mL	6.7946 mL
10 mM	0.3397 mL	1.6987 mL	3.3973 mL
50 mM	0.0679 mL	0.3397 mL	0.6795 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

He Y, et al. Novel inhibitors targeting the PGK1 metabolic enzyme in glycolysis exhibit effective antitumor activity against kidney renal clear cell carcinoma in vitro and in vivo. *Eur J Med Chem.* 2024 Mar 5;267:116209.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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