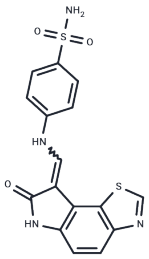
Data Sheet (Cat.No.T75163)

GW297361

Chemical Properties



CAS No. : 388627-21-2

Formula: C16H12N4O3S2

Molecular Weight: 372.42

Storage: Store at low temperature,Keep away from direct sunlight
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	GW297361 is a potent inhibitor of the cell cycle protein-dependent kinase Cdk1 and also inhibits the Pho85 signaling pathway.The IC50s of GW297361 on yeast Cdk1 and Pho85 were 20 nM and 400 nM, respectively.
Targets(IC50)	CDK,Src,VEGFR
In vitro	GW297361 (20 μM; 15 min; YRP1 cells) partially inhibits intracellular Cdk1.

Solubility Information

Solubility	DMSO: 6.25 mg/mL (16.78 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: 1 mg/mL (2.69 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6851 mL	13.4257 mL	26.8514 mL
5 mM	0.537 mL	2.6851 mL	5.3703 mL
10 mM	0.2685 mL	1.3426 mL	2.6851 mL
50 mM	0.0537 mL	0.2685 mL	0.537 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

Kung C, et al. Selective kinase inhibition by exploiting differential pathway sensitivity. Chem Biol. 2006 Apr;13(4): 399-407.