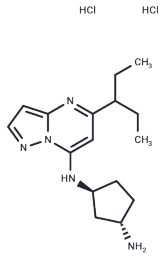
Data Sheet (Cat.No.T9446)

TargetMol

KB-0742 dihydrochloride

Chemical Properties



CAS No. : 2416874-75-2

Formula: C16H27Cl2N5

Molecular Weight: 360.33

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	KB-0742 dihydrochloride is a potent, selective, and orally administered inhibitor of CDK9.
Targets(IC50)	CDK

Solubility Information

Solubility	DMSO: 60 mg/mL (166.51 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: 2 mg/mL (5.55 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	2.7752 mL	13.8762 mL	27.7523 mL
5 mM	0.555 mL	2.7752 mL	5.5505 mL
10 mM	0.2775 mL	1.3876 mL	2.7752 mL
50 mM	0.0555 mL	0.2775 mL	0.555 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

André Richters, et al. Modulating Androgen Receptor-Driven Transcription in Prostate Cancer with Selective CDK9 Inhibitors. Cell Chem Biol. 2020 Oct 20;S2451-9456(20)30380-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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