

Lartesertib

Chemical Properties

CAS No. : 2495096-26-7

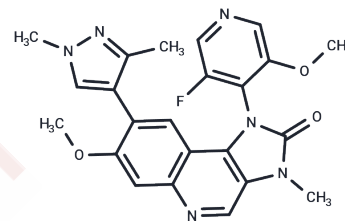
Formula: C₂₃H₂₁FN₆O₃

Molecular Weight: 448.45

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	Lartesertib (ATM Inhibitor-5) is an inhibitor of serine/threonine protein kinase ATM with potential anticancer activity for the study of lung cancer.
Targets(IC50)	ATM/ATR,PD-1/PD-L1,STING

Solubility Information

Solubility	DMSO: 80 mg/mL (178.39 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 (7.36 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	2.2299 mL	11.1495 mL	22.299 mL
5 mM	0.446 mL	2.2299 mL	4.4598 mL
10 mM	0.223 mL	1.115 mL	2.2299 mL
50 mM	0.0446 mL	0.223 mL	0.446 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

Turchick A, et al. Selective Inhibition of ATM-dependent Double-strand Break Repair and Checkpoint Control Synergistically Enhances the Efficacy of ATR Inhibitors. Mol Cancer Ther. 2023 Jul 5;22(7):859-872.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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