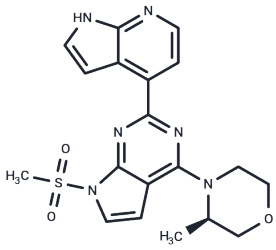
Data Sheet (Cat.No.T200105)

TargetMol

AD1058

Chemical Properties



CAS No. : 2907782-78-7

Formula: C19H20N6O3S

Molecular Weight: 412.47

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	AD1058 is a potent and selective ATR inhibitor (IC50 = 1.6 nM) that crosses the blood-brain barrier with significant in vivo anticancer activity. It is commonly used in the study of brain metastasis and CNS metastasis by inhibiting cell proliferation, disrupting the cell cycle and inducing apoptosis.
Targets(IC50)	Apoptosis,ATM/ATR,AMPK,mTOR,Src

Solubility Information

Solubility	DMSO: 80 mg/mL (193.95 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: 5 mg/mL (12.12 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	2.4244 mL	12.1221 mL	24.2442 mL
5 mM	0.4849 mL	2.4244 mL	4.8488 mL
10 mM	0.2424 mL	1.2122 mL	2.4244 mL
50 mM	0.0485 mL	0.2424 mL	0.4849 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

Liu Z, Jiang K, et al. Discovery of Preclinical Candidate AD1058 as a Highly Potent, Selective, and Brain-Penetrant ATR Inhibitor for the Treatment of Advanced Malignancies. J Med Chem. 2024 Aug 8;67(15):12735-12759.

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