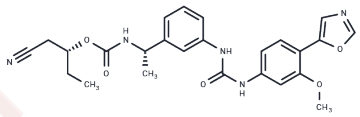
Data Sheet (Cat.No.T1979)

TargetMol

AVN-944

Chemical Properties



CAS No. : 297730-17-7

Formula: C25H27N5O5

Molecular Weight: 477.51

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	AVN-944 (VX-944)(VX-944) is a selective, noncompetitive inhibitor of human IMPDH with Ki of 6-10 nM for IMPDH1/IMPDH2.
Targets(IC50)	Apoptosis,Anti-infection,Bcl-2 Family,Caspase,Dehydrogenase,DNA/RNA Synthesis,Virus Protease

Solubility Information

Solubility	DMSO: 55 mg/mL (115.18 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 (4.19 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	2.0942 mL	10.471 mL	20.942 mL
5 mM	0.4188 mL	2.0942 mL	4.1884 mL
10 mM	0.2094 mL	1.0471 mL	2.0942 mL
50 mM	0.0419 mL	0.2094 mL	0.4188 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

Zimmermann AG, et al. Prog Nucleic Acid Res Mol Biol. 1998;61:181-209.
Zheng M, Li J, Guo H, et al.IMPDH inhibitors upregulate PD-L1 in cancer cells without impairing immune checkpoint inhibitor efficacy.Acta Pharmacologica Sinica.2024: 1-10.

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