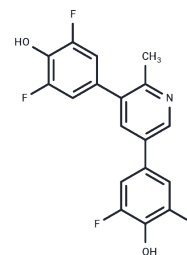


VRK-IN-1

Chemical Properties

CAS No. :	2378855-09-3
Formula:	C ₁₈ H ₁₁ F ₄ N ₂ O ₂
Molecular Weight:	349.28
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	VRK-IN-1 is a potent and selective inhibitor of [cowpox-associated kinase 1 (VRK1)], suitable for researching neurological disorders.
Targets(IC ₅₀)	Others,Serine Protease
In vitro	VRK-IN-1 (3.2 μM; 24 hours) slightly decreases the viability of human HeLa cells[1].

Solubility Information

Solubility	DMSO: 75 mg/mL (214.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (9.45 mM),Sonication is recommended. 10% DMSO+90% Saline: < 7.5 mg/mL (21.47 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 7.5 mg/mL (21.47 mM),Solution. <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	2.863 mL	14.3152 mL	28.6303 mL
5 mM	0.5726 mL	2.863 mL	5.7261 mL
10 mM	0.2863 mL	1.4315 mL	2.863 mL
50 mM	0.0573 mL	0.2863 mL	0.5726 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

Serafim RAM, et al. Development of Pyridine-based Inhibitors for the Human Vaccinia-related Kinases 1 and 2. ACS Med Chem Lett. 2019 Aug 19;10(9):1266-1271.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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