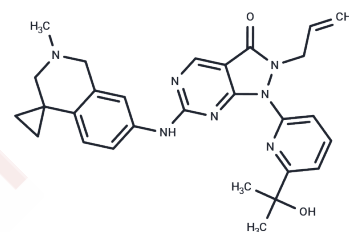


WEE1-IN-3

Chemical Properties

CAS No. : 2272976-28-8
 Formula: C₂₈H₃₁N₇O₂
 Molecular Weight: 497.59
 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	WEE1-IN-3 (JUN76288) is a potent Wee1 kinase inhibitor with an IC ₅₀ of <10 nM. Its treatment of cancer and other proliferative diseases.
Targets(IC ₅₀)	Wee1
In vitro	WEE1-IN-3 inhibits cancer cell growth with IC ₅₀ values of 100-1000 nM and <100 nM for SW480 cells and H23 cells, respectively. WEE1 is overexpressed in various cancer types, WEE1 kinase plays a role in the G ₂ -M cell-cycle checkpoint arrest for DNA repair before mitotic entry. Normal cells repair damaged DNA during G ₁ arrest. Cancer cells often have a deficient G ₁ -S checkpoint and depend on a functional G ₂ -M checkpoint for DNA repair.

Solubility Information

Solubility	DMSO: 250 mg/mL (502.42 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 (10.05 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	2.0097 mL	10.0484 mL	20.0969 mL
5 mM	0.4019 mL	2.0097 mL	4.0194 mL
10 mM	0.201 mL	1.0048 mL	2.0097 mL
50 mM	0.0402 mL	0.201 mL	0.4019 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

Peter Qinhua HUANG, et al. 1, 2 - dihydro- 3h- pyrazolo [3, 4 - d] pyrimidin -3 - one analogs. WO2019028008A1.

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