

TBK1-IN-1

Chemical Properties

CAS No. : 3031785-78-8

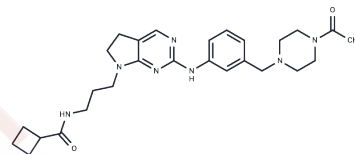
Formula: C₂₇H₃₇N₇O₂

Molecular Weight: 491.63

Store at low temperature

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	TBK1-IN-1 is a specific and potent TANK-binding kinase 1 (TBK1) inhibitor (IC ₅₀ : 22.4 nM) with anticancer activity. TBK1-IN-1 inhibits the expression of TBK1 downstream target genes, cxcl10 and ifn β .
Targets(IC ₅₀)	I κ B/IKK
In vitro	TBK1-IN-1 (1-100 μ M; 72 h) inhibits the growth of A549 and LLC cells in a dose-dependent manner and suppresses the phosphorylation of downstream signaling effector protein S6K of TBK1[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (162.72 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 (6.71 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	2.034 mL	10.1702 mL	20.3405 mL
5 mM	0.4068 mL	2.034 mL	4.0681 mL
10 mM	0.2034 mL	1.017 mL	2.034 mL
50 mM	0.0407 mL	0.2034 mL	0.4068 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

Vassilev LT, et al. In vivo activation of the p53 pathway by small-molecule antagonists of MDM2. Science. 2004 Feb 6;303(5659):844-8.

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