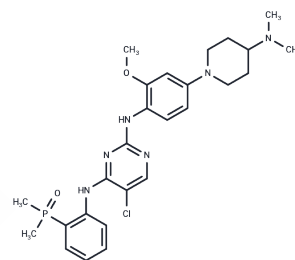


ALK-IN-1

Chemical Properties

CAS No. :	1197958-12-5
Formula:	C ₂₆ H ₃₄ ClN ₆ O ₂ P
Molecular Weight:	529.01
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	ALK-IN-1 is a Brigatinib analog and an ALK inhibitor commonly used in anti-tumor research.
Targets(IC50)	EGFR,ALK,IGF-1R

Solubility Information

Solubility	Ethanol: 98 mg/mL (185.25 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 30 mg/mL (56.71 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 (3.78 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	1.8903 mL	9.4516 mL	18.9032 mL
5 mM	0.3781 mL	1.8903 mL	3.7806 mL
10 mM	0.189 mL	0.9452 mL	1.8903 mL
50 mM	0.0378 mL	0.189 mL	0.3781 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

Huang WS, et al. Discovery of Brigatinib (AP26113), a Phosphine Oxide-Containing, Potent, Orally Active Inhibitor of Anaplastic Lymphoma Kinase. J Med Chem. 2016 May 26;59(10):4948-64.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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