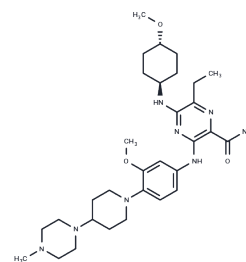


EML4-ALK kinase inhibitor 1

Chemical Properties

CAS No. :	1373409-08-5
Formula:	C ₃₁ H ₄₈ N ₈ O ₃
Molecular Weight:	580.76
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	EML4-ALK kinase inhibitor 1 (EML4 ALK kinase inhibitor 1) is a potent oral active inhibitor of echinoderm microtubule-associated protein-like 4-anaplastic lymphoma kinase (EML4-ALK), with an IC ₅₀ of 1 nM.
Targets(IC ₅₀)	ALK

Solubility Information

Solubility	DMSO: 99 mg/mL (170.47 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 (8.61 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	1.7219 mL	8.6094 mL	17.2188 mL
5 mM	0.3444 mL	1.7219 mL	3.4438 mL
10 mM	0.1722 mL	0.8609 mL	1.7219 mL
50 mM	0.0344 mL	0.1722 mL	0.3444 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

likubo K, et al. Synthesis and structure-activity relationships of pyrazine-2-carboxamide derivatives as novel echinoderm microtubule-associated protein-like 4 (EML4)-anaplastic lymphoma kinase (ALK) inhibitors. Bioorg Med Chem. 2019 Apr 15;27(8):1683-1692.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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