

MLT-748

Chemical Properties

CAS No. : 1832578-30-9

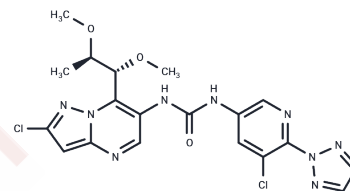
Formula: C₁₉H₁₉Cl₂N₉O₃

Molecular Weight: 492.32

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	MLT-748 is a MALT1 allosteric inhibitor that inhibits the growth of lung cancer cells. MLT-748 acts by blocking the protein hydrolyzing activity of MALT1.
Targets(IC50)	MALT
In vitro	In immortalized B cells from MALT1 mut/mut patients, MLT-748 (2 μM; 24 hours) increased phosphorylation levels of NF-κB signaling pathway components p65 and IκBα as early as 5 minutes after stimulation with PMA and ionomycin.

Solubility Information

Solubility	DMSO: 250 mg/mL (507.8 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 (10.16 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	2.0312 mL	10.156 mL	20.312 mL
5 mM	0.4062 mL	2.0312 mL	4.0624 mL
10 mM	0.2031 mL	1.0156 mL	2.0312 mL
50 mM	0.0406 mL	0.2031 mL	0.4062 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

Quancard J, et al. An allosteric MALT1 inhibitor is a molecular corrector rescuing function in an immunodeficient patient. *Nat Chem Biol.* 2019 Mar;15(3):304-313.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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