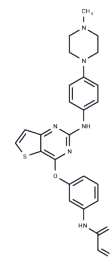


Olmutinib

Chemical Properties

CAS No. :	1353550-13-6
Formula:	C ₂₆ H ₂₆ N ₆ O ₂ S
Molecular Weight:	486.59
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Olmutinib (HM61713, BI 1482694) is an orally available small molecule, a mutant-selective inhibitor of epidermal growth factor receptor (EGFR) with potential antineoplastic activity. Olmutinib binds to and inhibits mutant forms of EGFR, thereby leading to cell death of EGFR-expressing tumor cells. As this agent is selective towards mutant forms of EGFR, its toxicity profile may be reduced as compared to non-selective EGFR inhibitors which also inhibit the EGFR wild-type form.
Targets(IC50)	EGFR,BTK
In vitro	HM61713 causes potent inhibition in cell lines H1975 (L858R and T790M) and HCC827 (exon 19 deletion). It has a low potency for NSCLC cell line H358 harboring wild-type EGFR (GI50 of 2225 nM)[1].
In vivo	HM61713 has a half-life of over 24 h for EGFR inhibition. In the in vivo studies of xenograft models with grafts of H1975 and HCC827, HM61713 is active against the tumors without showing any side effects[1].

Solubility Information

Solubility	Ethanol: 22 mg/mL (45.21 mM),Sonication is recommended. DMSO: 250 mg/mL (513.78 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (10.28 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	2.0551 mL	10.2756 mL	20.5512 mL
5 mM	0.411 mL	2.0551 mL	4.1102 mL
10 mM	0.2055 mL	1.0276 mL	2.0551 mL
50 mM	0.0411 mL	0.2055 mL	0.411 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

Wang S, et al. J Hematol Oncol. 2016, 9: 34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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