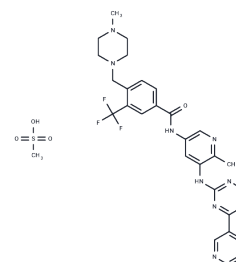


Flumatinib mesylate

Chemical Properties

CAS No. :	895519-91-2
Formula:	C30H33F3N8O4S
Molecular Weight:	658.69
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	Flumatinib mesylate (HHGV678 mesylate) is a selective inhibitor of c-Abl, PDGFR β and c-Kit, effectively overcomes drug resistance of certain KIT mutants.
Targets(IC50)	Bcr-Abl,c-Kit,PDGFR
In vitro	In vivo study consistently suggested that flumatinib had superior efficacy compared with imatinib or sunitinib against 32D cells with the secondary mutation Y823D. Molecular modeling of flumatinib docked to the KIT kinase domain suggested a special mechanism underlying the capability of flumatinib to overcome the drug-resistance conferred by activation loop mutations. These findings suggest that flumatinib could be a promising therapeutic agent against GISTs resistant to both imatinib and sunitinib because of secondary mutations in the activation loop[1].

Solubility Information

Solubility	H2O: 50 mg/mL (75.91 mM),Sonication is recommended. DMSO: 70 mg/mL (106.27 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 (3.04 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	1.5182 mL	7.5908 mL	15.1816 mL
5 mM	0.3036 mL	1.5182 mL	3.0363 mL
10 mM	0.1518 mL	0.7591 mL	1.5182 mL
50 mM	0.0304 mL	0.1518 mL	0.3036 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

Zhao J , Quan H , Xu Y , et al. Flumatinib, a selective inhibitor of BCR-ABL/PDGFR/KIT, effectively overcomes drug resistance of certain KIT mutants[J]. Cancer Science, 2014, 105(1):117-125.

Yang Y , Liu K , Zhong D , et al. Simultaneous determination of flumatinib and its two major metabolites in plasma of chronic myelogenous leukemia patients by liquid chromatography-tandem mass spectrometry[J]. Journal of Chromatography B Analytical Technologies in the Biomedical & Life Sciences, 2012, 895-896(none):25-30.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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