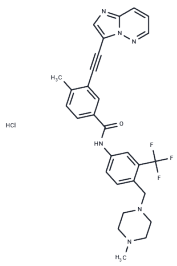
Data Sheet (Cat.No.T2372L)

TargetMol

Ponatinib Hydrochloride

Chemical Properties



CAS No. : 1114544-31-8

Formula: C29H28ClF3N6O

Molecular Weight: 569.02

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	Ponatinib Hydrochloride (AP-24534 Hydrochloride) is a hydrochloride of ponatinib. Ponatinib is an orally active multi-targeted kinase inhibitor with IC50s of 0.37 nM, 1.1 nM, 1.5 nM, 2.2 nM, and 5.4 nM for Abl, PDGFRα, VEGFR2, FGFR1, and Src, respectively.
Targets(IC50)	FGFR,Bcr-Abl,Autophagy,PDGFR,Src,VEGFR

Solubility Information

Solubility	DMSO: 83.33 mg/mL (146.44 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 (3.51 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7574 mL	8.787 mL	17.5741 mL
5 mM	0.3515 mL	1.7574 mL	3.5148 mL
10 mM	0.1757 mL	0.8787 mL	1.7574 mL
50 mM	0.0351 mL	0.1757 mL	0.3515 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

O'Hare T, et al. AP24534, a pan-BCR-ABL inhibitor for chronic myeloid leukemia, potently inhibits the T315I mutant and overcomes mutation-based resistance. Cancer Cell, 2009, 16(5), 401-412.
Dessilly G, Panin N, Elens L, Haufroid V, Demoulin JB. Impact of ABCB1 1236C>T-2677G>T-3435C>T polymorphisms on the anti-proliferative activity of imatinib, nilotinib, dasatinib and ponatinib. Sci Rep. 2016 Jul 12;6:29559. doi: 10.1038/srep29559. PubMed PMID: 27405085; PubMed Central PMCID: PMC4941718.
Abid MB, De Mel S. Does ponatinib cross the blood-brain barrier? Br J Haematol. 2016 Jun 28. doi: 10.1111/bjh.14222. [Epub ahead of print] PubMed PMID: 27352067.
Breccia M, Abruzzese E, Iurlo A, Gozzini A, Isidori A, Gangemi D, Pregno P, Alimena G. Efficacy and safety of second-line ponatinib after failure of a single previous tyrosine kinase inhibitor for chronic myeloid leukemia patients in chronic phase. Haematologica. 2016 Jun;101(6):e267-8. doi: 10.3324/haematol.2016.145623. Epub 2016 May 31. PubMed PMID: 27252515.