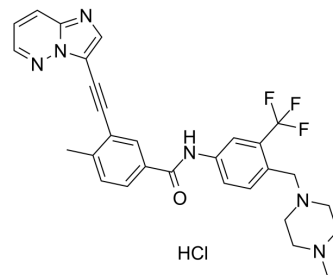


Ponatinib hydrochloride

Cat. No.:	HY-108766
CAS No.:	1114544-31-8
Molecular Formula:	C ₂₉ H ₂₈ ClF ₃ N ₆ O
Molecular Weight:	569.02
Target:	Bcr-Abl; FGFR; PDGFR; VEGFR; Src; Autophagy
Pathway:	Protein Tyrosine Kinase/RTK; Autophagy
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (43.94 mM); ultrasonic and warming and heat to 60°C																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>1.7574 mL</td> <td>8.7870 mL</td> <td>17.5741 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3515 mL</td> <td>1.7574 mL</td> <td>3.5148 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1757 mL</td> <td>0.8787 mL</td> <td>1.7574 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	1.7574 mL	8.7870 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
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	Please refer to the solubility information to select the appropriate solvent.																	
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.39 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.39 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.39 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	Ponatinib (AP24534) hydrochloride is a hydrochloride of ponatinib. Ponatinib is an orally active multi-targeted kinase inhibitor with IC ₅₀ s 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 ^[1] .			
IC₅₀ & Target	LYN 0.24 nM (IC ₅₀)	Abl 0.37 nM (IC ₅₀)	PDGFRα 1.1 nM (IC ₅₀)	VEGFR2 1.5 nM (IC ₅₀)
	FGFR1 2.2 nM (IC ₅₀)	Src 5.4 nM (IC ₅₀)		

CUSTOMER VALIDATION

- Cancer Discov. 2021 Jan;11(1):126-141.
- Sci Transl Med. 2018 Jul 18;10(450):eaaq1093.
- J Med Chem. 2019 May 23;62(10):5006-5024.
- Acta Pharmacol Sin. 2021 Jan;42(1):108-114.
- Biochem Pharmacol. 2021 Jul 30;114710.

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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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