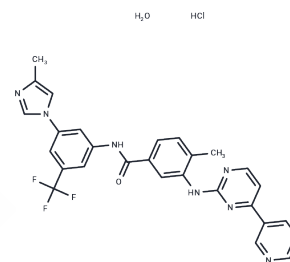


## Nilotinib monohydrochloride monohydrate

### Chemical Properties

CAS No. :	923288-90-8
Formula:	C <sub>28</sub> H <sub>22</sub> F <sub>3</sub> N <sub>7</sub> O.HCl.H <sub>2</sub> O
Molecular Weight:	583.99
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	Nilotinib monohydrochloride monohydrate (Nilotinib (monohydrochloride monohydrate)) is significantly potent BCR-ABL against, is a second generation tyrosine kinase inhibitor (TKI), and is active against many BCR-ABL mutants.
Targets(IC50)	Bcr-Abl, Autophagy
In vivo	In the indomethacin-induced enterocolitis rat model, nilotinib has a positive effect on the macroscopic and microscopic pathologic scores, ensuring considerable mucosal healing. Nilotinib decreases PDGFR $\alpha$ and $\beta$ levels and increases the colonic apoptotic scores[2].

### Solubility Information

Solubility	DMSO: 45 mg/mL (77.06 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 4 mg/mL (6.85 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

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	1mg	5mg	10mg
1 mM	1.7124 mL	8.5618 mL	17.1236 mL
5 mM	0.3425 mL	1.7124 mL	3.4247 mL
10 mM	0.1712 mL	0.8562 mL	1.7124 mL
50 mM	0.0342 mL	0.1712 mL	0.3425 mL

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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

Sako H , Fukuda K , Saikawa Y , et al. Antitumor Effect of the Tyrosine Kinase Inhibitor Nilotinib on Gastrointestinal Stromal Tumor (GIST) and Imatinib-Resistant GIST Cells[J]. PLOS ONE, 2014, 9(9):e107613.

Gozde Dervis Hakim Mujde Soy Turk Mehtat Unlu Pinar Ataca Meral Karaman Ozgul Sagol Elif Borekci Osman Yilmaz. Mucosal healing effect of nilotinib in indomethacin-induced enterocolitis:A rat model[J]. 2015.

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