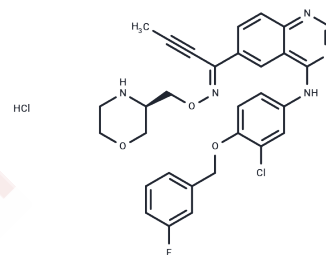


## Epertinib hydrochloride

### Chemical Properties

CAS No. : 2071195-74-7  
 Formula: C<sub>30</sub>H<sub>28</sub>Cl<sub>2</sub>FN<sub>5</sub>O<sub>3</sub>  
 Molecular Weight: 596.48  
 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	Epertinib hydrochloride (S-22611 hydrochloride) shows potent antitumor activity. Epertinib hydrochloride is a potent, orally active, reversible, and selective tyrosine kinase inhibitor of EGFR, HER2 and HER4, with IC <sub>50</sub> s of 1.48 nM, 7.15 nM and 2.49 nM, respectively.
Targets(IC <sub>50</sub> )	EGFR,HER

### Solubility Information

Solubility	DMSO: 100 mg/mL (167.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (16.77 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (6.71 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.6765 mL	8.3825 mL	16.765 mL
5 mM	0.3353 mL	1.6765 mL	3.353 mL
10 mM	0.1677 mL	0.8383 mL	1.6765 mL
50 mM	0.0335 mL	0.1677 mL	0.3353 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

Tanaka H, et al. Preclinical antitumor activity of S-222611, an oral reversible tyrosine kinase inhibitor of epidermal growth factor receptor and human epidermal growth factor receptor 2. *Cancer Sci.* 2014 Aug;105(8):1040-8.

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