

## Ripretinib

## Chemical Properties

CAS No. : 1442472-39-0

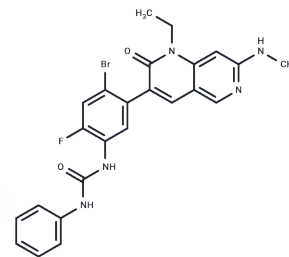
Formula: C<sub>24</sub>H<sub>21</sub>BrFN<sub>5</sub>O<sub>2</sub>

Molecular Weight: 510.36

Store at low temperature

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	Ripretinib (DCC-2618) is an orally bioavailable inhibitor of (KIT) and (PDGFRA).
Targets(IC50)	Apoptosis,FLT,c-Kit,PDGFR,VEGFR

## Solubility Information

Solubility	DMSO: 41.67 mg/mL (81.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 4.17 mg/mL (8.17 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 2 mg/mL (3.92 mM),Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.17 mg/mL (8.17 mM),Suspension. <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	1.9594 mL	9.797 mL	19.594 mL
5 mM	0.3919 mL	1.9594 mL	3.9188 mL
10 mM	0.1959 mL	0.9797 mL	1.9594 mL
50 mM	0.0392 mL	0.1959 mL	0.3919 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

Schneeweiss M, et al. The KIT and PDGFRA switch-control inhibitor DCC-2618 blocks growth and survival of multiple neoplastic cell types in advanced mastocytosis. *Haematologica*. 2018 May;103(5):799-809.

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