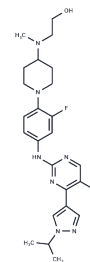


## Flonoltinib

## Chemical Properties

CAS No. :	2387765-27-5
Formula:	C <sub>25</sub> H <sub>34</sub> N <sub>7</sub> O
Molecular Weight:	467.58
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	Flonoltinib (JAK2/FLT3-IN-1) is an orally active and potent JAK2/FLT3 inhibitor, inhibiting JAK2, FLT3, JAK1, and JAK3. Flonoltinib has anti-cancer activity and can be used for studying myeloproliferative neoplasms.
Targets(IC50)	Apoptosis,FLT,JAK
In vitro	Flonoltinib (0.005-0.1 μM; for 2 hours) has a dose-dependent effect on the induction of apoptosis in the MV4-11 cells. Flonoltinib (0.008-1 μM; for 2 hours) down-regulates p-FLT3 in a dose-dependent manner from 0.008 to 1 μM. Flonoltinib (0.005-0.1 μM; for 2 hours) strongly induces cell cycle arrest with a G1/G0 percentage of 85% at 100 nM in the MV4-11 cells.
In vivo	Flonoltinib exhibits significant antitumor effects and the tumor growth inhibitory rates (TGI) were respective 58% and 93% in the MV4-11-bearing mice model.

## Solubility Information

Solubility	DMSO: 20 mg/mL (42.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2 mg/mL (4.28 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	2.1387 mL	10.6934 mL	21.3867 mL
5 mM	0.4277 mL	2.1387 mL	4.2773 mL
10 mM	0.2139 mL	1.0693 mL	2.1387 mL
50 mM	0.0428 mL	0.2139 mL	0.4277 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

Yang T, et al. Discovery of Potent and Orally Effective Dual JAK2/FLT3 Inhibitors for the Treatment of Acute Myelogenous Leukemia and Myeloproliferative Neoplasms. *J Med Chem*. 2019 Oct 31.

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