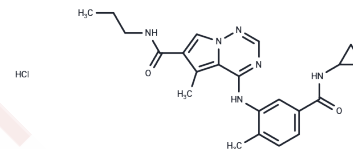


## BMS-582949 hydrochloride

## Chemical Properties

CAS No. :	912806-16-7
Formula:	C <sub>22</sub> H <sub>27</sub> ClN <sub>6</sub> O <sub>2</sub>
Molecular Weight:	442.95
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	The BMS-582949 hydrochloride (BMS-582949 HCl) is a highly specific p38α MAPK inhibitor (IC <sub>50</sub> : 13 nM).
Targets(IC <sub>50</sub> )	Autophagy, p38 MAPK

## Solubility Information

Solubility	DMSO: 50 mg/mL (112.88 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.64 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

	1mg	5mg	10mg
1 mM	2.2576 mL	11.288 mL	22.5759 mL
5 mM	0.4515 mL	2.2576 mL	4.5152 mL
10 mM	0.2258 mL	1.1288 mL	2.2576 mL
50 mM	0.0452 mL	0.2258 mL	0.4515 mL

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

Liu C, et al. Discovery of 4-(5-(cyclopropylcarbamoyl)-2-methylphenylamino)-5-methyl-N-propylpyrrolo[1,2-f][1,2,4]triazine-6-carboxamide (BMS-582949), a clinical p38 $\alpha$  MAP kinase inhibitor for the treatment of inflammatory diseases. J Med Chem. 2010 Sep 23;53(18):6629-39.

Emami H, et al. The effect of BMS-582949, a P38 mitogen-activated protein kinase (P38 MAPK) inhibitor on arterial inflammation: a multicenter FDG-PET trial. Atherosclerosis. 2015 Jun;240(2):490-6.

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