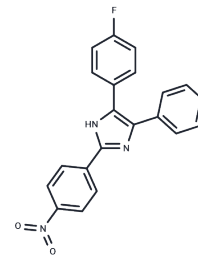


PD 169316

## Chemical Properties

CAS No. : 152121-53-4  
 Formula: C<sub>20</sub>H<sub>13</sub>FN<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 360.34  
 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	PD 169316 is a potent, cell-permeable, and selective inhibitor of p38 MAP kinase.
Targets(IC50)	Autophagy,p38 MAPK,Virus Protease

## Solubility Information

Solubility	DMSO: 7.9 mg/mL (21.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 0.79 mg/mL (2.19 mM),Solution. <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	2.7752 mL	13.8758 mL	27.7516 mL
5 mM	0.555 mL	2.7752 mL	5.5503 mL
10 mM	0.2775 mL	1.3876 mL	2.7752 mL
50 mM	0.0555 mL	0.2775 mL	0.555 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

Fu Y, et al. Biochem Biophys Res Commun. 2003 Oct 17;310(2):391-7.

Zheng M, Zhai Y, Yu Y, et al. TNF compromises intestinal bile-acid tolerance dictating colitis progression and limited infliximab response. Cell Metabolism. 2024

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