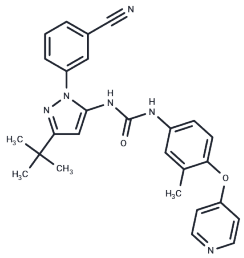
# Data Sheet (Cat.No.T36017)

PF-05381941

## Chemical Properties



CAS No. : 1474022-02-0

Formula: C27H26N6O2

Molecular Weight: 466.53

Storage: Store at low temperature
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 | PF-05381941 is a selective and potent dual inhibitor of TAK1 and p38α with IC 50 =156 nM/186nM that inhibits the kinase activity of TAK1 by binding to its active site. |
| Targets(IC50) | MAPK,p38 MAPK,MAP3K |
| In vitro | PF-05381941 inhibits TNF-α release from LPS-stimulated human peripheral mononuclear (PMN) cells with an IC50 value of 8 nM. [1] |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 80 mg/mL (171.48 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.07 mM),Sonication is recommended.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.1435 mL | 10.7174 mL | 21.4348 mL |
| 5 mM | 0.4287 mL | 2.1435 mL | 4.287 mL |
| 10 mM | 0.2143 mL | 1.0717 mL | 2.1435 mL |
| 50 mM | 0.0429 mL | 0.2143 mL | 0.4287 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

Kilty I, et al. TAK1 inhibition in the DFG-out conformation. Chem Biol Drug Des. 2013;82(5):500-505.