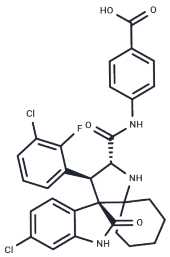
Data Sheet (Cat.No.T12031)

TargetMol

MI-1061

Chemical Properties



CAS No. : 1410737-34-6

Formula: C30H26Cl2FN3O4

Molecular Weight: 582.45

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	MI-1061 is a orally bioavailable inhibitor of MDM2 (MDM2-p53 interaction) (IC50=4.4 nM).
Targets(IC50)	Apoptosis,Mdm2,E1/E2/E3 Enzyme,MDM-2/p53
In vitro	MI-1061 achieves IC50 of 100 and 250 nM in the SJSA-1 and HCT-116 p53+/+ cell lines, respectively[1].
In vivo	MI-1061 was able to achieve tumor regression in oral SJSA-1 xenograft model mice[1].

Solubility Information

Solubility	DMSO: 300 mg/mL (515.07 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: 5 mg/mL (8.58 mM),Sonication is recommended. *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	1.7169 mL	8.5844 mL	17.1689 mL
5 mM	0.3434 mL	1.7169 mL	3.4338 mL
10 mM	0.1717 mL	0.8584 mL	1.7169 mL
50 mM	0.0343 mL	0.1717 mL	0.3434 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

Aguilar A, et al. Design of chemically stable, potent, and efficacious MDM2 inhibitors that exploit the retro-mannichring-opening-cyclization reaction mechanism in spiro-oxindoles. J Med Chem. 2014 Dec 26;57(24):10486-98.