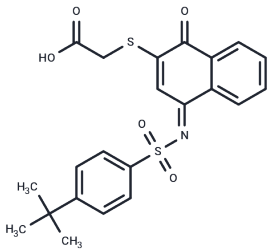
Data Sheet (Cat.No.T5994)

TargetMol

KPT-6566

Chemical Properties



CAS No. : 881487-77-0

Formula: C22H21NO5S2

Molecular Weight: 443.54

Storage: Store at low temperature,Keep away from direct sunlight,Store under nitrogen
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	KPT-6566 is a novel selective covalent pin1 inhibitor, KPT-6566 shows an IC50 of 640 nM and a Ki of 625.2 nM for PIN1 PPIase domain,and has anti-cancer activity.
Targets(IC50)	Others
In vitro	KPT-6566 covalently binds to the catalytic site of PIN1,inhibited the PPIase activity of PIN1 and turned out to have an IC50 of 0.64 μM.?This interaction results in the release of a quinone-mimicking drug that generates reactive oxygen species and DNA damage, inducing cell death specifically in cancer cells.
Cell Research	For IC50 determination, human recombinant PIN1 was preincubated with different concentrations of KPT-6566 and PPIase activity was measured after 180 min. K values of PPIase activity were plotted against inhibitor concentration in a semi-logarithmic plot.

Solubility Information

Solubility	DMSO: 120 mg/mL (270.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1 mg/mL (2.25 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	2.2546 mL	11.2729 mL	22.5459 mL
5 mM	0.4509 mL	2.2546 mL	4.5092 mL
10 mM	0.2255 mL	1.1273 mL	2.2546 mL
50 mM	0.0451 mL	0.2255 mL	0.4509 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

Zhang J , Zhao F , Yu X , et al. Pharmacokinetics of eupalinolide A, eupalinolide B and hyperoside from Eupatorium lindleyanum in rats by LC/MS/MS[J]. Journal of Chromatography B, 2015, 995-996:1-7.