MN551

Cat. No.: HY-156395

Molecular Formula: $C_{26}H_{26}ClFN_3O_7P$

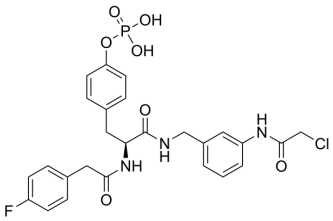
Molecular Weight: 577.93

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (173.03 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.7303 mL	8.6516 mL	17.3031 mL
5 mM	0.3461 mL	1.7303 mL	3.4606 mL
10 mM	0.1730 mL	0.8652 mL	1.7303 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.33 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.33 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MN551 is a potent inhibitor of cysteine-directed electrophilic covalent that plays important roles in the biology of SOCS2 and its CRL5 complex, and as E3 ligase handles in proteolysis targeting chimera (PROTACs) to induce targeted protein degradation[1].

IC_{50} & Target

cysteine-directed electrophilic covalent[1]

REFERENCES

[1]. Sarath Ramachandran, et al. Structure-based design of a phosphotyrosine-masked covalent ligand targeting the E3 ligase SOCS2. Nat Commun. 2023 Oct 10;14(1):6345.

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