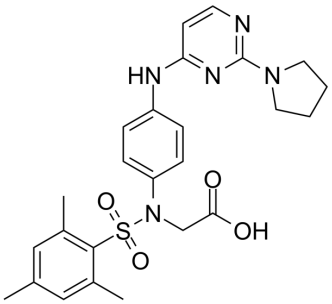
DDO-5936

Cat. No.:	HY-139301
CAS No.:	2355377-13-6
Molecular Formula:	$C_{25}H_{29}N_5O_4S$
Molecular Weight:	495.59
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
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 : 12.5 mg/mL (25.22 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0178 mL	10.0890 mL	20.1780 mL
	5 mM	0.4036 mL	2.0178 mL	4.0356 mL
	10 mM	0.2018 mL	1.0089 mL	2.0178 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: ≥ 1.25 mg/mL (2.52 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DDO-5936 is a potent and specific Hsp90-Cdc37 PPI inhibitor. DDO-5936 can be used for the research of colorectal cancer[1].

IC_{50} & Target

Hsp90-Cdc37 PPI[1]

In Vitro

DDO-5936 is a Hsp90-Cdc37 PPI inhibitor with potency and specificity through binding to a critical site on Hsp90 involving Glu47[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

DDO-5936 (0~80 mg/kg; p.o.) shows effect at the high dose group[1].

DDO-5936 is well tolerated for the absence of serious weight loss. DDO-5936 high dose groups show that tumor cells in the xenografts decreased significantly. DDO-5936 shows limited oral efficiency[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice[1]
Dosage:	0~80 mg/kg
Administration:	P.o.
Result:	Showed a moderate effect at the high dose group.

REFERENCES

[1]. Wang L, et al. Discovery and Optimization of Small Molecules Targeting the Protein-Protein Interaction of Heat Shock Protein 90 (Hsp90) and Cell Division Cycle 37 as Orally Active Inhibitors for the Treatment of Colorectal Cancer. J Med Chem. 2020;63(3):1

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