

DDO-5936

## Chemical Properties

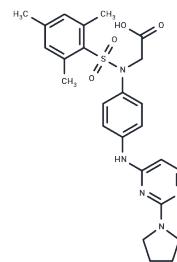
CAS No. : 2355377-13-6

Formula: C<sub>25</sub>H<sub>29</sub>N<sub>5</sub>O<sub>4</sub>S

Molecular Weight: 495.59

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	DDO-5936 is a potent and specific inhibitor of the protein-protein interaction (PPI) between HSP90 and Cdc37.
Targets(IC50)	HSP
In vitro	DDO-5936 is a potent and specific HSP90-Cdc37 PPI inhibitor through binding to a critical site on HSP90 involving Glu47.
In vivo	DDO-5936 is well tolerated for the absence of serious weight loss. DDO-5936 decreased tumor cells in the xenografts significantly in high dose group.

## Solubility Information

Solubility	DMSO: 6 mg/mL (12.11 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: 1 mg/mL (2.02 mM),Sonication is recommended. <i>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.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.0178 mL	10.089 mL	20.178 mL
5 mM	0.4036 mL	2.0178 mL	4.0356 mL
10 mM	0.2018 mL	1.0089 mL	2.0178 mL
50 mM	0.0404 mL	0.2018 mL	0.4036 mL

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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

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]. Journal of medicinal chemistry, 63(3):1281-1297.

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