p53 and MDM2 proteins-interaction-inhibitor (chiral)

Cat. No.: HY-70027

CAS No.: 939981-37-0

Molecular Formula: $C_{40}H_{49}Cl_2N_5O_4$

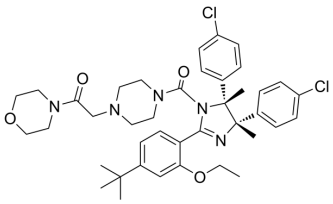
Molecular Weight: 734.75

Target: MDM-2/p53; E1/E2/E3 Enzyme

Pathway: Apoptosis; Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (68.05 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3610 mL	6.8050 mL	13.6101 mL
	5 mM	0.2722 mL	1.3610 mL	2.7220 mL
	10 mM	0.1361 mL	0.6805 mL	1.3610 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: ≥ 3.25 mg/mL (4.42 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3.25 mg/mL (4.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

p53 and MDM2 proteins-interaction-inhibitor (chiral) (Compound 32) is an inhibitor of the interaction between p53 and MDM2 proteins.

REFERENCES

[1]. Chen R, et al. A Fusion Protein of the p53 Transaction Domain and the p53-Binding Domain of the Oncoprotein MdmX as an Efficient System for High-Throughput Screening of MdmX Inhibitors. Biochemistry. 2017 Jun 27;56(25):3273-3282.

Caution: Product has not been fully validated for medical applications. For research use only.

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