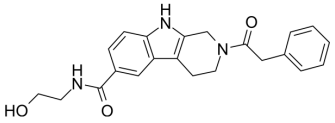
USP15-IN-1

Cat. No.:	HY-148046
CAS No.:	2260826-16-0
Molecular Formula:	$C_{22}H_{23}N_3O_3$
Molecular Weight:	377.44
Target:	Deubiquitinase
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (264.94 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
	1 mM	2.6494 mL	13.2471 mL	26.4943 mL
	5 mM	0.5299 mL	2.6494 mL	5.2989 mL
	10 mM	0.2649 mL	1.3247 mL	2.6494 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: ≥ 0.83 mg/mL (2.20 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 0.83 mg/mL (2.20 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.83 mg/mL (2.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

USP15-IN-1 is a potent USP15 inhibitor with an IC_{50} value of 3.76 μM. USP15-IN-1 can be used for researching anticancer[1].

IC_{50} & Target

IC_{50}: 3.76 μM (USP15)[1]

In Vitro

USP15-IN-1 (compound IM001) (0.001-5 μM; 48 h) exhibits highly anti-proliferative activity against non-small cell lung carcinoma and leukemia cells[1].

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

Cell Proliferation Assay[1]

Cell Line:	Non-small cell lung carcinoma and leukemia cells
Concentration:	0.001 μM, 0.005 μM, 0.01 μM, 0.05 μM, 0.1 μM, 0.5 μM, 1 and 5 μM
Incubation Time:	48 h
Result:	Exhibited highly anti-proliferative activity against non-small cell lung carcinoma and leukemia cells with IC_{50}s of 1.94 μM and 2.22 μM.

REFERENCES

[1]. Chen Yihua, et al. The tetrahydro-beta-carboline micromolecular organic compound and its derivative and medical usage of a kind of hydroxyl substitution. CN108727370A

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