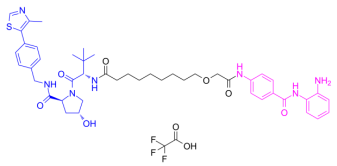
JPS014 TFA

Cat. No.:	HY-145815A
Molecular Formula:	$C_{48}H_{60}F_3N_7O_9S$
Molecular Weight:	968.09
Target:	PROTACs; HDAC; Apoptosis
Pathway:	PROTAC; Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (103.30 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.0330 mL	5.1648 mL	10.3296 mL
	5 mM	0.2066 mL	1.0330 mL	2.0659 mL
	10 mM	0.1033 mL	0.5165 mL	1.0330 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 (2.58 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.58 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

JPS014 TFA is a benzamide-based Von Hippel-Lindau (VHL) E3-ligase proteolysis targeting chimeras (PROTAC). JPS014 TFA degrades class I histone deacetylase (HDAC). JPS014 TFA is potent HDAC1/2 degrader correlated with greater total differentially expressed genes and enhanced apoptosis in HCT116 cells[1].

REFERENCES

[1]. Smalley JP, et al. Optimization of Class I Histone Deacetylase PROTACs Reveals that HDAC1/2 Degradation is Critical to Induce Apoptosis and Cell Arrest in Cancer Cells.

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