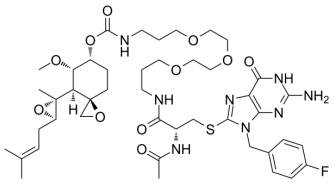
AUTAC1

Cat. No.:	HY-134183
CAS No.:	2241669-09-8
Molecular Formula:	$C_{44}H_{63}FN_8O_{11}S$
Molecular Weight:	931.08
Target:	Autophagy; AUTACs
Pathway:	Autophagy; PROTAC
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 : 100 mg/mL (107.40 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.0740 mL	5.3701 mL	10.7402 mL
	5 mM	0.2148 mL	1.0740 mL	2.1480 mL
	10 mM	0.1074 mL	0.5370 mL	1.0740 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 (2.69 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (2.69 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (2.69 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

AUTAC1 is a MetAP2-targeting autophagy-mediated degrader (AUTAC). AUTACs contain a degradation tag and a warhead to provide target specificity. AUTAC1 contains an FBnG (p-Fluorobenzyl Guanine) and a Fumagillol moiety. Fumagillol binds covalently to MetAP2[1].

In Vitro

AUTAC1 (1-100 μM, 24 h) silences endogenous MetAP2 in hela cells[1].

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

Western Blot Analysis[1]

Cell Line:	HeLa cells.
Concentration:	1-100 μM.
Incubation Time:	24 h.
Result:	Silenced endogenous MetAP2.

REFERENCES

[1]. Daiki Takahashi, et al. AUTACs: Cargo-Specific Degraders Using Selective Autophagy. Mol Cell. 2019 Dec 5;76(5):797-810.e10.

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