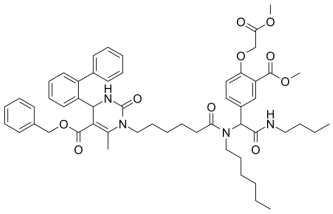
MAL3-101

Cat. No.:	HY-124805
CAS No.:	912361-26-3
Molecular Formula:	$C_{54}H_{66}N_4O_{10}$
Molecular Weight:	931.12
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (53.70 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.0740 mL	5.3699 mL	10.7398 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 >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (1.34 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MAL3-101 is a potent HSP70 allosteric inhibitor. MAL3-101 inhibits HSP70 ATPase activity by blocking Hsp40 co-chaperone interaction. MAL3-101 can be used for researching muscle invasive bladder cancer (MIBC)[1].

IC_{50} & Target

HSP70

In Vitro

MAL3-101 (10 μM; 24, 48, 72 hours) induces cell viability in MIBC cell lines UMUC3, T24, SW780 and J82[1].

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

REFERENCES

[1]. Prince T, et al. Dual targeting of HSP70 does not induce the heat shock response and synergistically reduces cell viability in muscle invasive bladder cancer. Oncotarget.

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