# MAL3-101

**Cat. No.:** HY-124805

**CAS No.:** 912361-26-3

**Molecular Formula:** $C_{54}H_{66}N_4O_{10}$

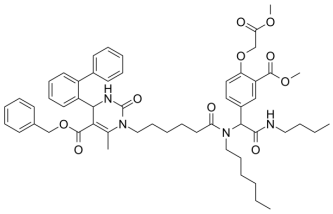
**Molecular Weight:** 931.12

**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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