# MX69

**Cat. No.:** HY-100892

**CAS No.:** 1005264-47-0

**Molecular Formula:** $C_{27}H_{26}N_2O_4S$

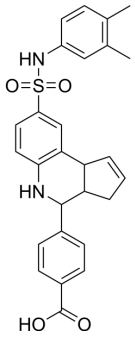
**Molecular Weight:** 474.57

**Target:** MDM-2/p53; IAP; E1/E2/E3 Enzyme

**Pathway:** Apoptosis; Metabolic Enzyme/Protease

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 2 years |
| | -20°C | 1 year |




## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (210.72 mM; Need ultrasonic)

$H_2O$ : < 0.1 mg/mL (insoluble)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 2.1072 mL | 10.5359 mL | 21.0717 mL |
| 5 mM | 0.4214 mL | 2.1072 mL | 4.2143 mL |
| 10 mM | 0.2107 mL | 1.0536 mL | 2.1072 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 (5.27 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

MX69 is an inhibitor of MDM2/XIAP, used for cancer treatment.

**In Vitro**

MX69 blocks the MDM2 protein-XIAP RNA interaction, leading to MDM2 degradation. MX69 shows minimal inhibitory effect on normal human hematopoiesis in vitro and is very well tolerated in animal models. MX69-induced MDM2 downregulation results not only in inhibition of XIAP expression, but also in activation of p53, which contributes to cancer cell apoptosis in vitro[1].

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

| | |
|---|---|
| **In Vivo** | MX69-induced MDM2 downregulation results in activation of p53 which contributes to inhibition of cancer cell proliferation in vivo[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## CUSTOMER VALIDATION

- J Cell Mol Med. 2019 Mar;23(3):2184-2193.

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## REFERENCES

[1]. Gu L, et al. Discovery of Dual Inhibitors of MDM2 and XIAP for Cancer Treatment. Cancer Cell. 2016 Oct 10;30(4):623-636

[2]. Lubing Gu, et al. Discovery of Dual Inhibitors of MDM2 and XIAP for Cancer Treatment. Cancer Cell. 2016 Oct 10;30(4):623-636



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