SM-433 hydrochloride

Cat. No.: HY-138059A

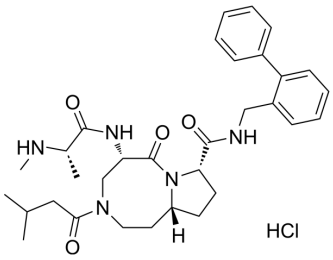
Molecular Formula: $C_{32}H_{44}ClN_5O_4$

Molecular Weight: 598.18

Target: IAP; Apoptosis

Pathway: Apoptosis

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 180 mg/mL (300.91 mM; Need ultrasonic)
H_2O : 25 mg/mL (41.79 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.6717 mL	8.3587 mL	16.7174 mL
5 mM	0.3343 mL	1.6717 mL	3.3435 mL
10 mM	0.1672 mL	0.8359 mL	1.6717 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: ≥ 4.5 mg/mL (7.52 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 4.5 mg/mL (7.52 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 4.5 mg/mL (7.52 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SM-433 hydrochlorid, a Smac mimetic, function as inhibitor of inhibitor of apoptosis proteins (IAPs). SM-433 hydrochlorid exhibits strong binding affinity XIAP BIR3 protein with an IC_{50}<1 μM (patent WO2008128171A2)[1].

In Vitro

SM-433 hydrochlorid exhibits strong inhibitory activity against MDA-MB -2131 human breast cancer cells and SK-OV-3 ovarian cancer cells (IC_{50}s<10 μM, respectively)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shaomeng Wang, et al. Diazo bicyclic smac mimetics and the uses thereof. WO2008128171A2.

Caution: Product has not been fully validated for medical applications. For research use only.

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