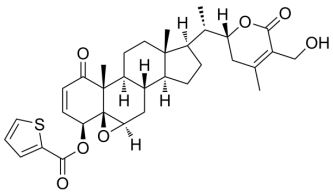
ASR-488

Cat. No.:	HY-145944
CAS No.:	2690312-65-1
Molecular Formula:	$C_{33}H_{40}O_7S$
Molecular Weight:	580.73
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (172.20 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7220 mL	8.6099 mL	17.2197 mL
	5 mM	0.3444 mL	1.7220 mL	3.4439 mL
	10 mM	0.1722 mL	0.8610 mL	1.7220 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.30 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ASR-488 activates the mRNA-binding protein CPEB1, induces apoptosis and inhibits bladder cancer growth[1].

In Vitro

ASR-488 (0.2-12.5 μM, 24-72 h) can potently induce apoptotic signaling and lead to significant growth inhibition of TCCSUP and HT1376 cells[1].

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

Cell Proliferation Assay[1]

Cell Line:	BCa cell lines TCCSUP and HT1376
Concentration:	0.2-12.5 μM

Incubation Time:	24, 48 and 72 h
Result:	Showed that the IC 50 of TCCSUP was 800, 480 and 450 nM at different time periods of 24, 48 and 72 hours, and the IC 50 of HT1376 was 1.28 μM, 750 and 850 nM, respectively. Caused a downregulation of p65 and Bcl-2 expression and a marked increase in apoptosis in TCCSUP and HT1376 cells.

REFERENCES

[1]. Ashish Tyagi, et al. ASR488, a novel small molecule, activates an mRNA binding protein, CPEB1, and inhibits the growth of bladder cancer. Oncol Lett. 2020 Jul;20(1):850-860.

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