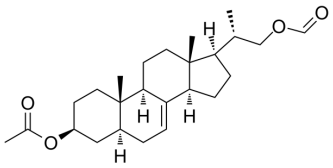
SH-42

Cat. No.:	HY-143228
CAS No.:	2143952-36-5
Molecular Formula:	$C_{25}H_{38}O_4$
Molecular Weight:	402.57
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2 mg/mL (4.97 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4840 mL	12.4202 mL	24.8404 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

In Vivo

1. Add each solvent one by one: 6.6% Cremophor solution (1:1 Ethanol and Cremophor EL) >> 93.4% PBS
   Solubility: 5 mg/mL (12.42 mM); Suspended solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

Description

SH-42 is a potent and selective inhibitor of human Δ^{24}-dehydrocholesterol reductase (DHCR24), with an IC_{50} of 42 nM. SH-42 can lead to a significant increase in plasma desmosterol levels of mice[1].

IC_{50} & Target

IC50: 42 nM (DHCR24)[1]

REFERENCES

[1]. Müller C, et, al. New chemotype of selective and potent inhibitors of human delta 24-dehydrocholesterol reductase. Eur J Med Chem. 2017 Nov 10;140:305-320.

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

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