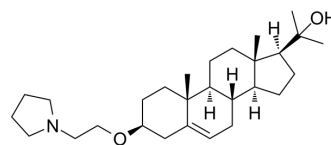


## 20-HC-Me-Pyrrolidine

Cat. No.:	HY-145001
Molecular Formula:	C <sub>28</sub> H <sub>47</sub> NO <sub>2</sub>
Molecular Weight:	429.68
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 6.67 mg/mL (15.52 mM); ultrasonic and warming and heat to 60°C																							
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.3273 mL</td> <td>11.6366 mL</td> <td>23.2731 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4655 mL</td> <td>2.3273 mL</td> <td>4.6546 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2327 mL</td> <td>1.1637 mL</td> <td>2.3273 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	1 mM	2.3273 mL	11.6366 mL	23.2731 mL	5 mM	0.4655 mL	2.3273 mL	4.6546 mL	10 mM	0.2327 mL	1.1637 mL	2.3273 mL			
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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: ≥ 0.67 mg/mL (1.56 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.67 mg/mL (1.56 mM); Clear solution																							

### BIOLOGICAL ACTIVITY

Description	20-HC-Me-Pyrrolidine is a potent Aster protein inhibitor with IC <sub>50</sub> s of 0.11 μM, 0.06 μM, and 0.71 μM for Aster-A, Aster-B, and Aster-C, respectively. 20-HC-Me-Pyrrolidine blocks the ability of Asters to bind and transfer cholesterol. 20-HC-Me-Pyrrolidine also inhibits the movement of low-density lipoprotein (LDL) cholesterol to the endoplasmic reticulum (ER) <sup>[1]</sup> .
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### REFERENCES

[1]. Xu Xiao, et al. Selective Aster inhibitors distinguish vesicular and nonvesicular sterol transport mechanisms. Proc Natl Acad Sci U S A. 2021 Jan 12;118(2):e2024149118.

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

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