

20-HC-Me-Pyrrolidine

Chemical Properties

CAS No. :

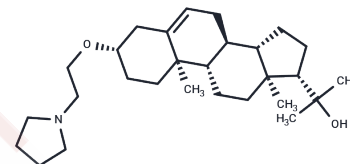
Formula: C₂₈H₄₇NO₂

Molecular Weight: 429.68

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	20-HC-Me-Pyrrolidine is a potent Aster protein inhibitor with IC ₅₀ =0.06~0.71 μm for Aster-A, Aster-B, and Aster-C that blocks the ability of Aster proteins to bind and transfer cholesterol, including inhibiting the movement of LDL cholesterol to the endoplasmic reticulum.
Targets(IC ₅₀)	Others,CETP,LDL,LDLR
In vitro	20-HC-Me-Pyrrolidine is a potent inhibitor of Aster proteins, with IC ₅₀ values of 0.87μM for Aster-A, 0.21μM for Aster-B, and 1.41μM for Aster-C [1].

Solubility Information

Solubility	DMSO: 13.15 mg/mL (30.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	50% PEG300+50% Saline: 2 mg/mL (4.65 mM),Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0465 mL	0.2327 mL	0.4655 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Xiao X, Kim Y, Romartinez-Alonso B, Sirvydis K, Ory DS, Schwabe JWR, Jung ME, Tontono P. Selective Aster inhibitors distinguish vesicular and nonvesicular sterol transport mechanisms. Proc Natl Acad Sci U S A. 2021 Jan 12;118(2):e2024149118.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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