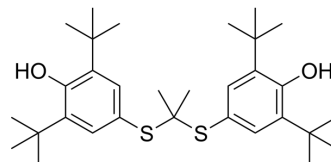


Probucol

Cat. No.:	HY-B0388		
CAS No.:	23288-49-5		
Molecular Formula:	C ₃₁ H ₄₈ O ₂ S ₂		
Molecular Weight:	516.84		
Target:	Virus Protease		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (193.48 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		1.9348 mL	9.6742 mL	19.3483 mL
	5 mM		0.3870 mL	1.9348 mL	3.8697 mL
	10 mM		0.1935 mL	0.9674 mL	1.9348 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (4.84 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Probucol (DH-581) is an anti-hyperlipidemic agent by lowering the level of cholesterol in the bloodstream by increasing the rate of LDL catabolism.

IC₅₀ & Target

Probucol (DH-581) is a drug used to lower LDL and HDL cholesterol yet has little effect on serum-triglyceride or VLDL cholesterol. Probucol (DH-581) inhibited cholesterol efflux up to 80% in J774 macrophages expressing ABCA1. Probucol (DH-

581) is an effective inhibitor of ABCA1-mediated cholesterol efflux without influencing scavenger receptor class B type I-mediated efflux. The inhibition of ABCA1 translocation to the plasma membrane may in part explain the reported in vivo high-density lipoprotein-lowering action of probucol^[1].

CUSTOMER VALIDATION

- Cancer Immunol Res. 2023 Oct 4;11(10):1400-1413.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Probuco

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

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