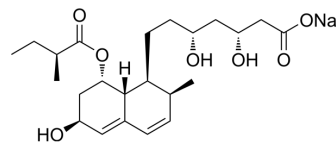


Pravastatin sodium

Cat. No.:	HY-B0165A
CAS No.:	81131-70-6
Molecular Formula:	C ₂₃ H ₃₅ NaO ₇
Molecular Weight:	446.51
Target:	HMG-CoA Reductase (HMGCR); Autophagy; Ferroptosis
Pathway:	Metabolic Enzyme/Protease; Autophagy; Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (223.96 mM; Need ultrasonic)
 H₂O : ≥ 50 mg/mL (111.98 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2396 mL	11.1980 mL	22.3959 mL
	5 mM	0.4479 mL	2.2396 mL	4.4792 mL
	10 mM	0.2240 mL	1.1198 mL	2.2396 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (223.96 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pravastatin sodium (CS-514 sodium) is an HMG-CoA reductase inhibitor against sterol synthesis with IC₅₀ of 5.6 μM.

IC₅₀ & Target

HMG-CoA reductase^[1].

In Vitro

Pravastatin (CS-514) is a member of the drug class of statins, used in combination with diet, exercise, and weight-loss for lowering cholesterol and preventing cardiovascular disease^[1].

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

CUSTOMER VALIDATION

- Cell Syst. 2018 Apr 25;6(4):424-443.e7.
- Front Cell Dev Biol. 2022 Mar 3;10:806081.
- Front Cell Dev Biol. 2020 May 28;8:404.
- Research Square Preprint. 2022 Feb.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. McTavish D, et al. Pravastatin. A review of its pharmacological properties and therapeutic potential in hypercholesterolaemia. *Drugs*. 1991 Jul;42(1):65-89.

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

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