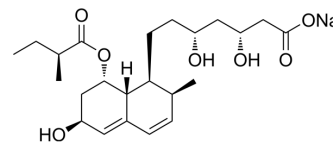


## Pravastatin sodium

Cat. No.:	HY-B0165A
CAS No.:	81131-70-6
Molecular Formula:	C <sub>23</sub> H <sub>35</sub> NaO <sub>7</sub>
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)  
H<sub>2</sub>O : ≥ 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

1. Add each solvent one by one: PBS  
Solubility: 100 mg/mL (223.96 mM); Clear solution; Need ultrasonic
2. 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
3. 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
4. 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 IC <sub>50</sub> of 5.6 μM.
IC <sub>50</sub> & Target	HMG-CoA reductase <sup>[1]</sup> .

## 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<sup>[1]</sup>.

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](http://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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