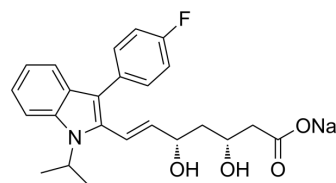


## (3R,5S)-Fluvastatin sodium

<b>Cat. No.:</b>	HY-14664F
<b>CAS No.:</b>	94061-80-0
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>25</sub> FNNaO <sub>4</sub>
<b>Molecular Weight:</b>	433.45
<b>Target:</b>	HMG-CoA Reductase (HMGCR); Autophagy
<b>Pathway:</b>	Metabolic Enzyme/Protease; Autophagy
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (230.71 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.3071 mL	11.5354 mL	23.0707 mL
		<b>5 mM</b>		0.4614 mL	2.3071 mL	4.6141 mL
	<b>10 mM</b>		0.2307 mL	1.1535 mL	2.3071 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.77 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.77 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.77 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	(3R,5S)-Fluvastatin ((3R,5S)-XU 62-320) sodium is the 3R,5S-isomer Fluvastatin. Fluvastatin (XU 62-320 free acid) is a first fully synthetic, competitive HMG-CoA reductase inhibitor with an IC <sub>50</sub> of 8 nM. Fluvastatin protects vascular smooth muscle cells against oxidative stress through the Nrf2-dependent antioxidant pathway <sup>[1][2][3]</sup> .
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### REFERENCES

[1]. Araújo FA, et al. 3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitor (fluvastatin) decreases inflammatory angiogenesis in mice. APMIS. 2012 24.

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

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