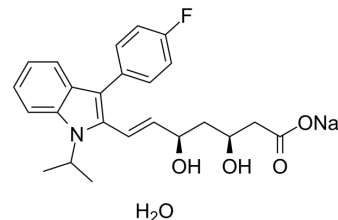


Fluvastatin sodium monohydrate

Cat. No.:	HY-14664D
CAS No.:	201541-53-9
Molecular Formula:	C ₂₄ H ₂₇ FNNaO ₅
Molecular Weight:	451.46
Target:	HMG-CoA Reductase (HMGCR); Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Fluvastatin (XU 62-320) sodium monohydrate is a first fully synthetic, competitive HMG-CoA reductase inhibitor with an IC₅₀ of 8 nM. Fluvastatin (sodium monohydrate) protects vascular smooth muscle cells against oxidative stress through the Nrf2-dependent antioxidant pathway^{[1][2]}.

CUSTOMER VALIDATION

- Chem Eng J. 1 January 2023, 138972.
- Pharmacol Res. 2023 Mar 10;106724.
- Cell Prolif. 2021 Jan;54(1):e12953.
- Front Bioeng Biotechnol. 2022 Mar 17;10:826093.
- Front Cell Dev Biol. 2020 May 28;8:404.

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REFERENCES

[1]. Makabe S, et al. Fluvastatin protects vascular smooth muscle cells against oxidative stress through the Nrf2-dependent antioxidant pathway. *Atherosclerosis*. 2010;213(2):377-384.

[2]. Zhang W, et al. Fluvastatin, a lipophilic statin, induces apoptosis in human hepatocellular carcinoma cells through mitochondria-operated pathway. *Indian J Exp Biol*. 2010;48(12):1167-1174.

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

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