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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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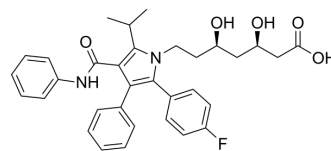
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Atorvastatin (Standard)

Cat. No.:	HY-B0589R
CAS No.:	134523-00-5
Molecular Formula:	C ₃₃ H ₃₅ FN ₂ O ₅
Molecular Weight:	558.64
Target:	Autophagy; HMG-CoA Reductase (HMGCR)
Pathway:	Autophagy; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Atorvastatin (Standard) is the analytical standard of Atorvastatin. This product is intended for research and analytical applications. Atorvastatin is an orally active HMG-CoA reductase inhibitor, has the ability to effectively decrease blood lipids. Atorvastatin inhibits human SV-SMC proliferation and invasion with IC₅₀s of 0.39 μM and 2.39 μM, respectively^{[1][2][3]}.

REFERENCES

- [1]. Nawrocki, J.W., et al., Reduction of LDL cholesterol by 25% to 60% in patients with primary hypercholesterolemia by atorvastatin, a new HMG-CoA reductase inhibitor. *Arterioscler Thromb Vasc Biol*, 1995. 15(5): p. 678-82.
- [2]. Santodomingo-Garzón T, et al. Atorvastatin inhibits inflammatory hypernociception. *Br J Pharmacol*. 2006 Sep;149(1):14-22.
- [3]. Turner NA, et al. Comparison of the efficacies of five different statins on inhibition of human saphenous vein smooth muscle cell proliferation and invasion. *J Cardiovasc Pharmacol*. 2007 Oct;50(4):458-61.
- [4]. Song XJ, et al. Atorvastatin inhibits myocardial cell apoptosis in a rat model with post-myocardial infarction heart failure by downregulating ER stress response. *Int J Med Sci*. 2011;8(7):564-72.
- [5]. Li Y, et al. Inhibition of endoplasmic reticulum stress signaling pathway: A new mechanism of statins to suppress the development of abdominal aortic aneurysm. *PLoS One*. 2017 Apr 3;12(4):e0174821.
- [6]. Ming-Bai Hu, et al. Atorvastatin induces autophagy in MDA-MB-231 breast cancer cells. *Ultrastruct Pathol*. Sep-Oct 2018;42(5):409-415.

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

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