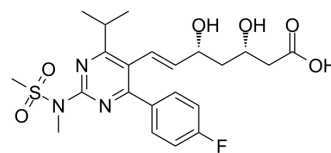


(3S,5R)-Rosuvastatin

Cat. No.:	HY-17504D
CAS No.:	1242184-42-4
Molecular Formula:	C ₂₂ H ₂₈ FN ₃ O ₆ S
Molecular Weight:	481.54
Target:	HMG-CoA Reductase (HMGCR); Potassium Channel; Autophagy
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(3S,5R)-Rosuvastatin is the (3S,5R)-enantiomer of Rosuvastatin. Rosuvastatin is a competitive HMG-CoA reductase inhibitor with an IC ₅₀ of 11 nM ^[1] . Rosuvastatin potently blocks human ether-a-go-go related gene (hERG) current with an IC ₅₀ of 195 nM ^[2] . Rosuvastatin reduces the expression of the mature hERG and the interaction of heat shock protein 70 (Hsp70) with the hERG protein. Rosuvastatin is very effective in lowering low-density lipoprotein (LDL) cholesterol, triglycerides, and C-reactive protein levels ^[3] .
IC₅₀ & Target	IC ₅₀ : 11 nM (HMG-CoA) ^[1] and 195 nM (hERG) ^[2]

REFERENCES

- [1]. Watanabe, M., et al., Synthesis and biological activity of methanesulfonamide pyrimidine- and N-methanesulfonyl pyrrole-substituted 3,5-dihydroxy-6-heptenoates, a novel series of HMG-CoA reductase inhibitors. *Bioorg Med Chem*, 1997. 5(2): p. 437-44.
- [2]. Plante I, et al. Rosuvastatin blocks hERG current and prolongs cardiac repolarization. *J Pharm Sci*. 2012 Feb;101(2):868-78.
- [3]. Feng PF, et al. Intracellular Mechanism of Rosuvastatin-Induced Decrease in Mature hERG Protein Expression on Membrane. *Mol Pharm*. 2019 Apr 1;16(4):1477-1488.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA