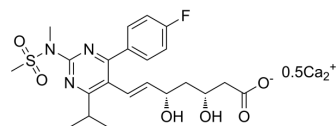


Rosuvastatin Calcium (Standard)

Cat. No.:	HY-17504R
CAS No.:	147098-20-2
Molecular Formula:	C ₂₂ H ₂₇ CaFN ₃ O ₆ S ⁻
Molecular Weight:	520.61
Target:	HMG-CoA Reductase (HMGCR); Autophagy; Potassium Channel; Bacterial
Pathway:	Metabolic Enzyme/Protease; Autophagy; Membrane Transporter/Ion Channel; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (48.02 mM; Need ultrasonic)
 H₂O : 1 mg/mL (1.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9208 mL	9.6041 mL	19.2082 mL
	5 mM	0.3842 mL	1.9208 mL	3.8416 mL
	10 mM	0.1921 mL	0.9604 mL	1.9208 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Rosuvastatin (Calcium) (Standard) is the analytical standard of Rosuvastatin (Calcium). This product is intended for research and analytical applications. Rosuvastatin Calcium is a competitive HMG-CoA reductase (HMGCR) inhibitor, with an IC₅₀ of 11 nM. Rosuvastatin Calcium potently blocks hERG current with an IC₅₀ of 195 nM^[2]. Rosuvastatin Calcium reduces the expression of the mature hERG and the interaction of heat shock protein 70 (Hsp70) with the hERG protein. Rosuvastatin Calcium effectively lowers low-density lipoprotein (LDL) cholesterol, triglycerides, and C-reactive protein levels^{[1][2][3]}.

CUSTOMER VALIDATION

- Acta Pharmacol Sin. 2023 Jan 31.
- Front Bioeng Biotechnol. 2022 Mar 17;10:826093.
- Front Cell Dev Biol. 2022 Mar 3;10:806081.

See more customer validations on www.MedChemExpress.com

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

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