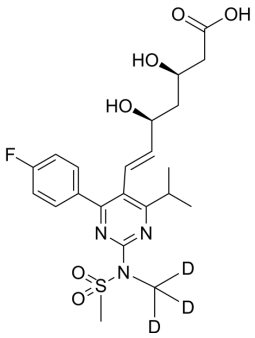
Rosuvastatin-d_3

Cat. No.:	HY-17504AS
CAS No.:	1133429-16-9
Molecular Formula:	$C_{22}H_{25}D_3FN_3O_6S$
Molecular Weight:	484.56
Target:	HMG-CoA Reductase (HMGCR); Autophagy; Potassium Channel; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Autophagy; Membrane Transporter/Ion Channel; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Rosuvastatin-d_3 is a deuterium labeled Rosuvastatin. Rosuvastatin (ZD 4522) is a competitive HMG-CoA reductase inhibitor with an IC50 of 11 nM[1]. Rosuvastatin potently blocks human ether-a-go-go related gene (hERG) current with an IC50 of 195 nM, delayed cardiac repolarization, and thereby prolonged action potential durations (APDs) and corrected QT interval (QTc) intervals[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]. Carswell C.I., et al. Rosuvastatin. Drugs, 2002. 62(14): p. 2075-85; discussion 2086-7.

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