
Product Data Sheet

Product Name: Rosuvastatin D3

Cat. No.: GC61251

Chemical Properties

Cas. No. 1133429-16-9

SMILES FC(C=C1)=CC=C1C2=NC(N(C([2H]))([2H])[2H])S(=O)(C)=O)=NC(C(C)C)=C2/C=C/[C@@H](O)C[C@@H](O)CC(O)=O

Formula $C_{22}H_{25}D_3FN_3O_6S$ M.Wt 484.56

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Rosuvastatin D3 (ZD 4522 D3) 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].

- [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.

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

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