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## Product Data Sheet

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Product Name: (3S,5R)-Fluvastatin D6

Cat. No.: GC60395

### Chemical Properties

Cas. No. 2249799-34-4

SMILES OC(C[C@@H](O)C[C@@H](O)/C=C/C1=C(C2=CC=C(C=C2)F)C3=CC=CC=C3N1C(C([2H])([2H])[2H])C([2H])([2H])[2H])=O

Formula C<sub>24</sub>H<sub>20</sub>D<sub>6</sub>FNO<sub>4</sub> M.Wt 417.5

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

(3S,5R)-Fluvastatin D6 is the deuterium labeled (3S,5R)-Fluvastatin sodium. Fluvastatin is a first fully synthetic, competitive HMG-CoA reductase inhibitor with an IC<sub>50</sub> of 8 nM. Fluvastatin protects vascular smooth muscle cells against oxidative stress through the Nrf2-dependent antioxidant pathway[1].

[1]. AraÚjo FA, Rocha MA, Capettini LS, et al. 3-Hydroxy-3-methylglutaryl coenzyme A reductase inhibitor (fluvastatin) decreases inflammatory angiogenesis in mice. *APMIS*. 2012 24. [2]. Makabe S, Takahashi Y, Watanabe H, et al. Fluvastatin protects vascular smooth muscle cells against oxidative stress through the Nrf2-dependent antioxidant pathway. *Atherosclerosis*. 2010 Dec;213(2):377-84. [3]. Scripture CD, Pieper JA. Clinical pharmacokinetics of fluvastatin. *Clin Pharmacokinet*. 2001;40(4):263-81.

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

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