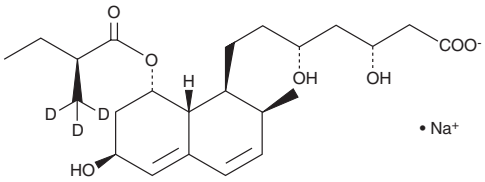
PRODUCT INFORMATION

Pravastatin-d_3 (sodium salt)

Item No. 25464

CAS Registry No.: 1329836-90-9
Formal Name: (3R,5R)-3,5-dihydroxy-7-((1S,2S,6S,8S,8aR)-6-hydroxy-2-methyl-8-(((S)-2-(methyl-d_3)butanoyl)oxy)-1,2,6,7,8,8a-hexahydronaphthalen-1-yl) heptanoate, monosodium salt
MF: $C_{23}H_{32}D_3O_7 \bullet Na$
FW: 449.5
Chemical Purity: ≥98% (Pravastatin)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Pravastatin-d_3 is intended for use as an internal standard for the quantification of pravastatin (Item No. 10010343) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Pravastatin-d_3 (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the pravastatin-d_3 (sodium salt) in the solvent of choice, which should be purged with an inert gas. Pravastatin-d_3 (sodium salt) is slightly soluble in methanol.

Description

Pravastatin is a potent and competitive HMG-CoA reductase inhibitor (K_i = 2.3 nM for the active, open ring form of the molecule) that is a ring-hydroxylated metabolite of mevastatin (Item No. 10010340).[1] *In vivo*, pravastatin reduces total plasma cholesterol levels by 29% in dogs when administered at a dose of 20 mg/kg per day for five weeks. Formulations containing pravastatin have been used to reduce LDL cholesterol and triglyceride levels and increase HDL cholesterol in the prevention of cardiovascular disease.

Reference

1. Corsini, A., Maggi, F.M., and Catapano, A.L. Pharmacology of competitive inhibitors of HMG-CoA reductase. *Pharmacol. Res.* **31(1)**, 9-27 (1995).

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