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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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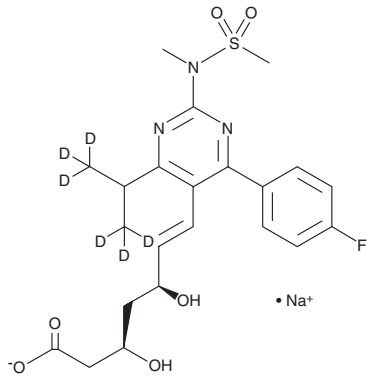
PRODUCT INFORMATION

Rosuvastatin-d_6 (sodium salt)

Item No. 23359

CAS Registry No.:	2070009-41-3
Formal Name:	(3R,5S,E)-7-(4-(4-fluorophenyl)-2-(N-methylmethylsulfonamido)-6-(propan-2-yl-1,1,1,3,3,3-d_6) pyrimidin-5-yl)-3,5-dihydroxyhept-6-enoate, monosodium salt
MF:	$C_{22}H_{21}D_6FN_3O_6S \bullet Na$
FW:	509.6
Purity:	≥98%
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

Rosuvastatin-d_6 (sodium salt) is intended for use as an internal standard for the quantification of rosuvastatin (Item Nos. 12029 | 18813) 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).

Rosuvastatin-d_6 (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the rosuvastatin-d_6 (sodium salt) in the solvent of choice. Rosuvastatin-d_6 (sodium salt) is soluble in the organic solvent methanol, which should be purged with an inert gas.

Description

Rosuvastatin is an inhibitor of HMG-CoA reductase (IC_{50} = 5 nM).[1] It inhibits cholesterol synthesis in isolated rat hepatocytes with an IC_{50} value of 0.16 nM.[2] Rosuvastatin (10 mg/kg) reduces plasma total cholesterol, triglyceride, LDL-C, and oxidized LDL-C levels in *Ldlr*$^{-/-}$ mice fed a high-fat diet.[3] It decreases the area of aortic atherosclerotic lesions in the same model. Formulations containing rosuvastatin have been used in the treatment of dyslipidemias.

References

1. Istvan, E.S. and Deisenhofer, J. Structural mechanism for statin inhibition of HMG-CoA reductase. *Science* **292(5519)**, 1160-1164 (2001).
2. McTaggart, F., Buckett, L., Davidson, R., *et al.* Preclinical and clinical pharmacology of Rosuvastatin, a new 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitor. *Am. J. Cardiol.* **87(5A)**, 28B-32B (2001).
3. Guo, H., Shi, Y., Liu, L., *et al.* Rosuvastatin inhibits MMP-2 expression and limits the progression of atherosclerosis in LDLR-deficient mice. *Arch. Med. Res.* **40(5)**, 345-351 (2009).

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