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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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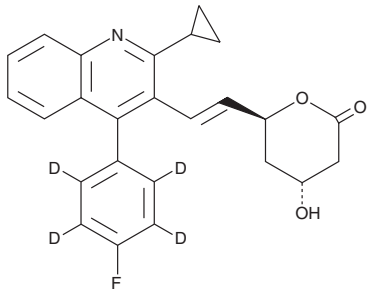
PRODUCT INFORMATION

Pitavastatin lactone-d_4

Item No. 34696

Formal Name:	6S-((E)-2-(2-cyclopropyl-4-(4-fluorophenyl-2,3,5,6-d_4)quinolin-3-yl)vinyl)-4R-hydroxytetrahydro-2H-pyran-2-one
MF:	$C_{25}H_{18}D_4FNO_3$
FW:	407.5
Chemical Purity:	≥90% (Pitavastatin lactone)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
UV/Vis.:	λ_{max}: 245 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

Pitavastatin lactone-d_4 is intended for use as an internal standard for the quantification of pitavastatin lactone (Item No. 21785) 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).

Pitavastatin lactone-d_4 is supplied as a solid. A stock solution may be made by dissolving the pitavastatin lactone-d_4 in the solvent of choice, which should be purged with an inert gas. Pitavastatin lactone-d_4 is soluble in ethanol.

Description

Pitavastatin lactone is a major phase 2 metabolite of the HMG-CoA reductase inhibitor pitavastatin (Item No. 15414).[1,2] Pitavastatin lactone is formed when pitavastatin undergoes glucuronidation by the UDP-glucuronysyltransferase (UGT) isoforms UGT1A1, UGT1A3, or UGT2B7 to form pitavastatin glucuronide, which then undergoes non-enzymatic conversion to pitavastatin lactone. It can be retroconverted to pitavastatin *via* hydrolysis.

References

1. Fujino, H., Yamada, I., Shimada, S., *et al.* Metabolic fate of pitavastatin, a new inhibitor of HMG-CoA reductase: Human UDP-glucuronosyltransferase enzymes involved in lactonization. *Xenobiotica* **33(1)**, 27-41 (2003).
2. Aoki, T., Nishimura, H., Nakagawa, S., *et al.* Pharmacological profile of a novel synthetic inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A reductase. *Arzneimittelforschung* **47(8)**, 904-909 (1997).

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