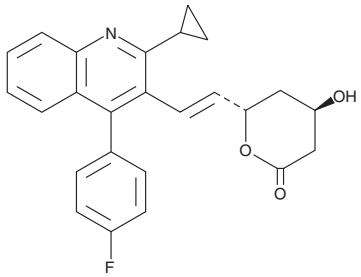
PRODUCT INFORMATION

Pitavastatin lactone

Item No. 21785

CAS Registry No.:	141750-63-2
Formal Name:	6S-[(1E)-2-[2-cyclopropyl-4-(4-fluorophenyl)-3-quinolinyl]ethenyl] tetrahydro-4R-hydroxy-2H-pyran-2-one
MF:	$C_{25}H_{22}FNO_3$
FW:	403.5
Purity:	≥98%
Supplied as:	A solid
Storage:	4°C
Stability:	≥4 years



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

Laboratory Procedures

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

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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