
Product Data Sheet

Product Name: 4-hydroxy Atorvastatin lactone

Cat. No.: GC18425

Chemical Properties

Cas. No. 163217-70-7

Chemical Name 5-(4-fluorophenyl)-N-(4-hydroxyphenyl)-2-(1-methylethyl)-4-phenyl-1-[2-[(2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethyl]-1H-pyrrole-3-carboxamide

SMILES O=C(C1=C(C(C)C)N(CC[C@H](C[C@@H](O)C2)OC2=O)C(C3=CC=C(F)C=C3)=C1C4=CC=CC=C4)NC5=CC=C(O)C=C5

Formula $C_{33}H_{33}FN_2O_5$ M.Wt 556.6

Solubility DMSO: Soluble, Methanol: Slightly soluble 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

4-hydroxy Atorvastatin lactone is a metabolite of atorvastatin, an HMG-CoA reductase inhibitor present in formulations that have been used to treat hypercholesterolemia and certain dyslipidemias. Atorvastatin is metabolized by the cytochrome P450 (CYP) isoform CYP3A4 to form 4-hydroxy atorvastatin and 2-hydroxy atorvastatin, which can be interconverted between their acid and lactone forms. Atorvastatin can itself be lactonized to atorvastatin lactone then metabolized by CYP3A4 directly to 4-hydroxy atorvastatin lactone and 2-hydroxy atorvastatin lactone.

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

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