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## Product Data Sheet

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Product Name: (3S,5S)-Atorvastatin (sodium salt)

Cat. No.: GC13751

**Chemical Properties**

Cas. No. 1428118-38-0

Chemical Name 2-(4-fluorophenyl)- $\beta,\delta$ -dihydroxy-5-(1-methylethyl)-3-phenyl-4-[(phenylamino)carbonyl]-1H-pyrrole-1-heptanoic acid, monosodium saltSMILES O=C(C1=C(C(C)C)N(CC[C@H](O)C[C@H](O)CC([O-])=O)C(C2=CC=C(F)C=C2)=C1C3=CC=CC=C3)NC4=CC=CC=C4.[Na+]Formula  $C_{33}H_{34}FN_2O_5 \cdot Na$ 

M.Wt 580.6

Solubility  $\leq 0.5$ mg/ml in ethanol; 15mg/ml in DMSO; 25mg/ml in dimethyl formamide

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**

Atorvastatin exists in four optical forms. The (3R, 5R)-atorvastatin enantiomer displays the greatest activity against HMG-CoA reductase. (3S,5S)-Atorvastatin is an enantiomer of atorvastatin with little or no inhibitory activity against HMG-CoA reductase [1]. Atorvastatin is a synthetic HMG-CoA reductase inhibitor implicated in lowering plasma cholesterol levels by inhibiting endogenous cholesterol synthesis. Atorvastatin also reduces triglyceride levels through an as yet unproven mechanism [2]. In various trials in patients with hypercholesterolaemia, atorvastatin produced greater reductions in total cholesterol, apolipoprotein B, LDL-cholesterol and triglyceride levels. In patients with primary hypercholesterolaemia, atorvastatin in combination with colestipol produced significant reductions in LDL-cholesterol levels and smaller reductions in triglyceride levels than atorvastatin monotherapy [2].

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

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### References:

- [1] Kocarek T A, Dahn M S, Cai H, et al. Regulation of CYP2B6 and CYP3A expression by hydroxymethylglutaryl coenzyme A inhibitors in primary cultured human hepatocytes[J]. Drug Metabolism and Disposition, 2002, 30(12): 1400-1405.
- [2] Lea A P, McTavish D. Atorvastatin[J]. Drugs, 1997, 53(5): 828-847.

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