



LKT Laboratories, Inc.

Atorvastatin Calcium Trihydrate

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Product Information

Product ID A7658

CAS No. 344423-98-9

Chemical Name (8R,8R)-2-(4-Fluorophenyl)-8,8-dihydroxy-5-(1-methylethyl)-3-phenyl-4-[(phenylamino)carbonyl]-1H-pyrrole-1-heptanoic acid

Synonym Atorvastatin Calcium Salt, Lipitor, Sortis: Torvast, Totalip, Xarator

Formula $(C_{33}H_{34}FN_2O_5)_2Ca \cdot 3H_2O$

Formula Wt. 1209.39

Melting Point 159-161 °C

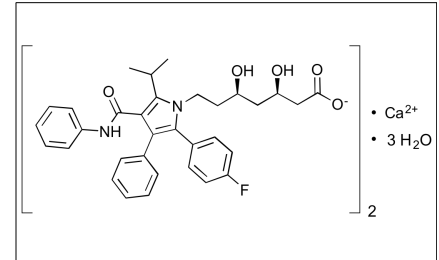
Purity ≥98%

Solubility Soluble in methanol. Very slightly soluble in water and acetonitrile. Slightly soluble in ethanol. DMSO (10 mg/ml)

Store Temp Ambient

Ship Temp Ambient

Description Atorvastatin exhibits anti-hyperlipidemic, anti-inflammatory, anti-fibrotic, and cardioprotective activities. Atorvastatin acts as an inhibitor of HMG-CoA reductase, preventing cholesterol synthesis and decreasing levels of total cholesterol, triglycerides, and LDL and increasing levels of HDL. In animal models of renal ischemia/perfusion, atorvastatin decreases expression of toll-like receptor 4 (TLR4) and hmgb1, decreasing oxidative stress and inflammation. Additionally, atorvastatin inhibits left ventricular hypertrophy and cardiac fibrosis and decreases expression of HSP47 in animal models of heart failure.



Bulk quantities available upon request

Product ID	Size
A7658	10 mg
A7658	50 mg
A7658	100 mg

References Cai J, Yu X, Zhang B, et al. Atorvastatin improves survival of implanted stem cells in a rat model of renal ischemia-reperfusion injury. *Am J Nephrol.* 2014;39(6):466-75. PMID: 24854145.

Akahori H, Tsujino T, Naito Y, et al. Atorvastatin ameliorates cardiac fibrosis and improves left ventricular diastolic function in hypertensive diastolic heart failure model rats. *J Hypertens.* 2014 Jul;32(7):1534-41. PMID: 24759122.

Lea AP, McTavish D. Atorvastatin. A review of its pharmacology and therapeutic potential in the management of hyperlipidaemias. *Drugs.* 1997 May;53(5):828-47. PMID: 9129869.

Izumi S, Nozaki Y, Maeda K, et al. Investigation of the impact of substrate selection on in vitro organic anion transporting polypeptide 1B1 inhibition profiles for the prediction of drug-drug interactions. *Drug Metab Dispos.* 2015 Feb;43(2):235-247. PMID: 25414411.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.