Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Pitavastatin (Calcium)

Catalog No: tcsc1948

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
147526-32-7

Formula:
$C_{25}H_{23}FNO_4 \cdot {}_1/_2\,Ca$

Pathway:
Autophagy;Metabolic Enzyme/Protease;Autophagy

Target:
Autophagy;HMG-CoA Reductase (HMGCR);Mitophagy

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 50 mg/mL (113.51 mM)

Alternative Names:
Pitavastatin hemicalcium;NK-104

Observed Molecular Weight:
440.49

Product Description

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Pitavastatin Calcium is a competitive inhibitor of the enzyme HMGCR (HMG-CoA reductase) results in a reduction in LDL cholesterol synthesis

Target: HMG-CoA reductase

Pitavastatin (usually as a calcium salt) is a member of the blood cholesterol lowering medication class of statins, marketed in the United States under the trade name Livalo. Like other statins, it is an inhibitor of HMG-CoA reductase, the enzyme that catalyses the first step of cholesterolsynthesis. It has been available in Japan since 2003, and is being marketed under licence in South Korea and in India. It is likely that pitavastatin will be approved for use in hypercholesterolaemia (elevated levels of cholesterol in the blood) and for the prevention of cardiovascular disease outside South and Southeast Asia as well. In the US, it received FDA approval in 2009.

Most statins are metabolised in part by one or more hepatic cytochrome P450 enzymes, leading to an increased potential for drug interactions and problems with certain foods (such as grapefruit juice). Pitavastatin appears to be a substrate of CYP2C9, and not CYP3A4 (which is a common source of interactions in other statins). As a result, pitavastatin is less likely to interact with drugs that are metabolized via CYP3A4, which might be important for elderly patients who need to take multiple medicines.