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

Dalcetrapib

Catalog No: tcsc0916

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
211513-37-0

Formula:
$C_{23}H_{35}NO_2S$

Pathway:
Metabolic Enzyme/Protease

Target:
CETP

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
JTT-705;RO4607381

Observed Molecular Weight:
389.59

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

Product Description

Dalcetrapib (JTT-705; RO-4607381) is a rhCETP inhibitor with IC50 of 0.2 μM that increases the plasma HDL cholesterol.

IC50 value: 0.2 uM [1]

Target: CETP

in vitro: Dalcetrapib modulates CETP activity. Dalcetrapib induces a conformational change in CETP, when added to human plasma. CETP-induced pre-β-HDL formation in human plasma is unchanged by Dalcetrapib ≤3 μM and increased at 10 μM. Dalcetrapib statistically and significantly increases pre-β-HDL formation [1]. Dalcetrapib achieves 50% inhibition of CETP activity in human plasma at a concentration of 9 μM [2]. Dalcetrapib inhibits the CETP activity of media in HepG2 in a dose-dependent manner [3].

in vivo: Treatment with Dalcetrapib leads to significant increases in HDL-C levels. In hamsters injected with [3H]cholesterol-labeled autologous macrophages Dalcetrapib significantly increases fecal elimination of both [3H]neutral sterols and [3H]bile acids. Dalcetrapib increases plasma HDL-[3H]cholesterol [1]. Dalcetrapib has 95% inhibition of CETP activity in male Japanese white rabbits at an oral dose of 30 mg/kg. Dalcetrapib increases the plasma HDL cholesterol level by 27% and 54%, respectively, when given at oral doses of 30 mg/kg or 100 mg/kg once a day for 3 days to male Japanese white rabbits [2].