Taiclone®
Quality Guarantee

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

CP-640186 (hydrochloride)

Catalog No: tcsc3135

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
591778-70-0

Formula:
$C_{30}H_{36}ClN_3O_3$

Pathway:
Metabolic Enzyme/Protease

Target:
Acetyl-CoA Carboxylase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 48 mg/mL (91.94 mM)

Observed Molecular Weight:
522.08

Product Description

CP-640186 Hcl is an isozyme-nonselective acetyl-CoA carboxylase (ACC) inhibitor with IC50s of 53 nM and 61 nM for rat liver ACC1

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

and rat skeletal muscle ACC2 respectively; with improved metabolic stability vs CP-610431.

IC50 value: 53 nM/61 nM (rat liver ACC1/skeletal muscle ACC2) [1]

Target: acetyl-CoA carboxylase

in vitro: CP-640186, also inhibited both isozymes with IC50s of ~55 nM but was 2–3 times more potent than CP-610431 in inhibiting HepG2 cell fatty acid and TG synthesis. CP-640186 also stimulated fatty acid oxidation in C2C12 cells (ACC2) and in rat epitrochlearis muscle strips with EC50s of 57 nM and 1.3 uM [1].

in vivo: In rats, CP-640186 lowered hepatic, soleus muscle,

quadriceps muscle, and cardiac muscle malonyl-CoA with ED50s of 55, 6, 15, and 8 mg/kg. Consequently, CP-640186 inhibited fatty acid synthesis in rats, CD1 mice, and ob/ob mice with ED50s of 13, 11, and 4 mg/kg, and stimulated rat whole body fatty acid oxidation with an ED50 of ~30 mg/kg [1].