

CP-640186

Catalog No: tcsc3022



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

591778-68-6

Formula:

$C_{30}H_{35}N_3O_3$

Pathway:

Metabolic Enzyme/Protease

Target:

Acetyl-CoA Carboxylase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

485.62

Product Description

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

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 μ M [1].

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

quadriceps muscle, and cardiac muscle malonyl-CoA

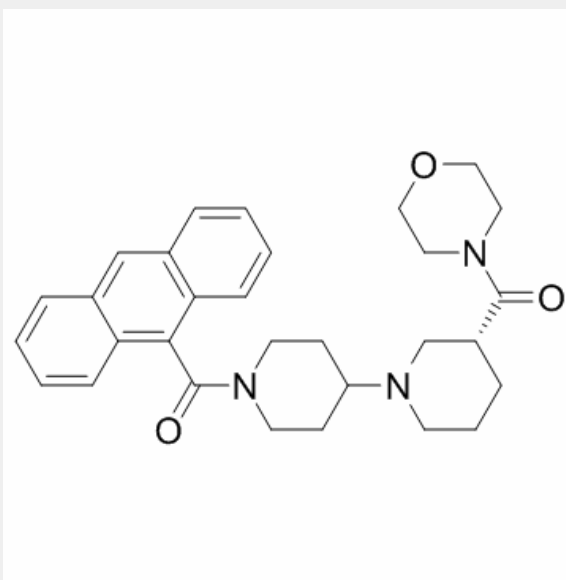
with ED50s of 55, 6, 15, and 8 mg/kg. Consequently, CP-

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].



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