

Product Data Sheet

Product Name: CP-640186

Cat. No.: GC13434

Chemical Properties

Cas. No. 591778-68-6

Chemical Name (R)-anthracen-9-yl(3-(morpholine-4-carbonyl)-[1,4'-bipiperidin]-1'-yl)methanone

SMILES O=C(N1CCOCC1)[C@]2([H])CCCN(C3CCN(C(C4=C5C=CC=CC5=CC6=CC=CC=C64)=O)CC3)C2

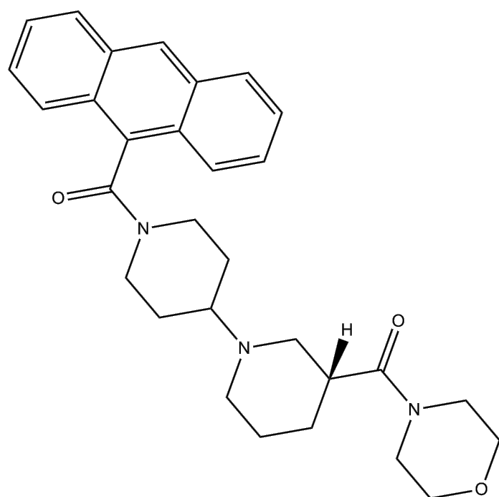
Formula $C_{30}H_{35}N_3O_3$ M.Wt 485.62

Solubility $\geq 19.95\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

CP-640186 is a potent and cell-permeable Acetyl-CoA carboxylase (ACC) inhibitor with IC_{50} s of 53 nM and 61 nM for rat liver ACC1 and rat skeletal muscle ACC2 respectively.

References:

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Harwood HJ Jr, et al. Isozyme-nonselective N-substituted bipiperidylcarboxamide acetyl-CoA carboxylase inhibitors reduce tissue malonyl-CoA concentrations, inhibit fatty acid synthesis, and increase fatty acid oxidation in cultured cells and in experimental animals. J Biol Chem. 2003 Sep 26;278(39):37099-111.

[2]. Yamashita T, et al. Design, synthesis, and structure-activity relationships of spirolactones bearing 2-ureidobenzothiophene as acetyl-CoA carboxylases inhibitors. Bioorg Med Chem Lett. 2011 Nov 1;21(21):6314-8.

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