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

AMG 837

Catalog No: tcsc3278

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
865231-46-5

Formula:
$C_{26}H_{21}F_3O_3$

Pathway:
GPCR/G Protein

Target:
GPR40

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
438.44

Product Description

AMG 837 is a potent GPR40 agonist(EC50=13 nM) with a superior pharmacokinetic profile and robust glucose-dependent stimulation of insulin secretion in rodents.

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IC50 value: 13 nM (EC50) [1]

Target: GPR40 agonist

AMG 837 displayed the expected two-fold increase in potency on GPR4 (EC50 = 13 [±7] nM) compared to the racemic compound and its activity crossed over to the rat and mouse forms of GPR40 (EC50 = 23 and 13 nM, respectively). AMG 837 was found to be a partial agonist on GPR40 with maximal activity 85% of that shown by DHA under our standard assay conditions. AMG 837 is a highly potent stimulator of insulin secretion in MIN6 cells with an EC50 comparable to that seen in the aequorin Ca2+-flux assay. showed no significant activity in cell-based assays against PPARα, δ, and γ. An external panel of 64 receptors also revealed no significant activity with the exception of weak inhibition (IC50 = 3 uM) on the a2-adrenergic receptor. Overall, AMG 837 was both highly potent and selective in vitro.