

Product Name : AMG 837 calcium hydrate

Synonyms : —

Cat No. : M29595

CAS Number : 1259389-38-2

Molecular Formula : C52H42CaF6O7

Formula Weight : 933.0

Chemical Name : ----

Description

AMG 837 calcium hydrate is a potent GPR40 agonist with an EC50 of 13 nM. AMG 837 calcium hydrate also shows highly selective over GPR41, GPR43, and GPR120 (EC50 > 10,000 nM). (In Vitro): GPR40 agonist AMG 837 displayed the expected two-fold increase in potency on GPR4 (EC50: 13 nM) compared to the racemic compound and its activity crossed over to the rat and mouse forms of GPR40 (EC50s: 23/13 nM). AMG 837 was a partial agonist on GPR40 with maximal activity 85% of that shown by DHA. An external panel of 64 receptors also revealed no significant activity with the exception of week inhibition (IC50: 3 nM) and the g2 advancerie receptor. (In Vitro): In rate, AMG 837 increases insulin release when

of weak inhibition (IC50: 3 μM) on the α2-adrenergic receptor .(In Vivo): In rats, AMG 837 increases insulin release when glucose levels are elevated . AMG 837 was dosed at 0.03, 0.1 and 0.3 mg/kg by oral gavage daily for 21-days. Thirty minutes following the first dose, an IPGTT was performed. AMG 837 improved glucose levels during the IPGTT (figure 5A) with a decrease in glucose AUC of 17%, 34% (p<0.001), and 39% (p<0.001) at 0.03, 0.1 and 0.3 mg/kg, respectively. This was associated with increased insulin secretion following glucose administration.

Pathway : Cell Cycle/DNA Damage

Target : GPR

Receptor : GPR

Solubility : —

SMILES O.[Ca++].CC#CC(CC([O-])=O)c1ccc(OCc2cccc(c2)-c2ccc(cc2)C(F)(F)F)cc1.CC#CC(CC([O-])=O)c1ccc(OCc2cccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc(c2)-c2ccc

c2ccc(cc2)C(F)(F)F)cc1

Storage : (-20℃)

Stability : ≥ 2 years

Reference :