

# AMG 837 (calcium hydrate)

Catalog No: tcsc3280



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

1259389-38-2

**Formula:**

$C_{26}H_{22}F_3O_4^-$

**Pathway:**

GPCR/G Protein

**Target:**

GPR40

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 42$  mg/mL (92.22 mM)

**Observed Molecular Weight:**

455.45

## Product Description

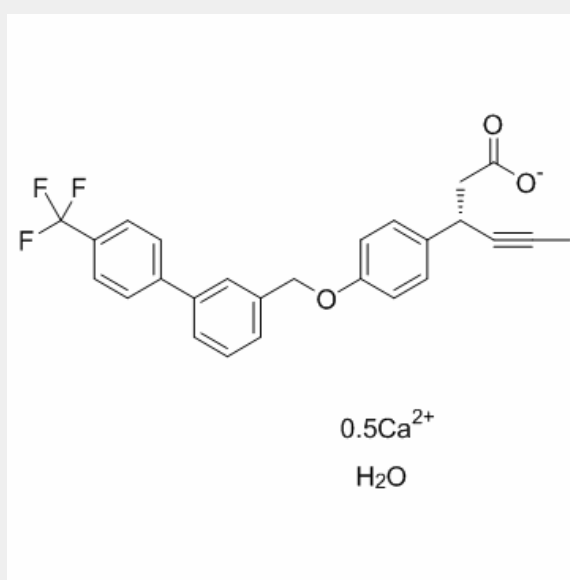
AMG 837 calcium hydrate is a potent GPR40 agonist( $EC_{50}=13$  nM) with a superior pharmacokinetic profile and robust glucose-dependent stimulation of insulin secretion in rodents.

IC50 value: 13 nM (EC50) [1]

Target: GPR40 agonist

AMG 837 displayed the expected two-fold increase in potency on GPR4 (EC50 = 13 [ $\pm$ 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 Ca<sup>2+</sup>-flux assay. showed

no significant activity in cell-based assays against PPAR $\alpha$ ,  $\delta$ , and  $\gamma$ . An external panel of 64 receptors also revealed no significant activity with the exception of weak inhibition (IC50 = 3  $\mu$ M) on the  $\alpha$ 2-adrenergic receptor. Overall, AMG 837 was both highly potent and selective in vitro.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!