

Product Data Sheet

Product Name: AMG 837 hemicalcium salt

Cat. No.: GC50333

Chemical Properties

Cas. No. 1291087-14-3

SMILES CC#C[C@H](C1=CC=C(C=C1)OCC2=CC=CC(C3=CC=C(C(F)(F)F)C=C3)=C2)CC([O-])=O.CC#C[C@H](C4=CC=C(C=C4)OCC5=CC=CC(C6=CC=C(C(F)(F)F)C=C6)=C5)CC([O-])=O.[Ca+2]

Formula $C_{26}H_{20}F_3O_3 \cdot \frac{1}{2}Ca$ M.Wt 457.47

Solubility Soluble 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

Potent free fatty acid receptor 1 (FFA1/GPR40) partial agonist (EC50 values are 13.5, 22.6 and 31.7 nM at human, mouse and rat receptors, respectively). Interacts allosterically with full FFA1 agonist Docosahexaenoic acid. Potentiates glucose-dependent stimulation of insulin in vivo. Antidiabetic.

Houze et al (2012) AMG 837: a potent, orally bioavailable GPR40 agonist. *Bioorg.Med.Chem.Lett.* 22 1267 PMID:22217876 | Lin et al (2012) Identification and pharmacological characterization of multiple allosteric binding sites on the free fatty acid 1 receptor. *Mol.Pharmacol.* 82 843 PMID:22859723 | Lin et al (2011) AMG 837: a novel GPR40/FFA1 agonist that enhances Ins secretion and lowers glucose levels in rodents. *PLoS One* 6 e27270 PMID:22087278

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

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