Product Data Sheet

Product Name: AMG 837 calcium hydrate
Cat. No.: GC35313

Chemical Properties

Cas. No.	1259389-38-2		
SMILES	[O-]C(C[C@H](C#CC)C1=CC=C(C=C1)OCC2=CC=CC(C3=CC=C(C(F)(F)F)C=C3)=C2)=O.[0.5Ca2+].O		
Formula	$C_{26}H_{22}F_3O_4$-	M.Wt	455.45
Solubility	DMSO: ≥ 42 mg/mL (92.22 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	AMG 837 calcium hydrate		

Background

AMG 837 is a partial agonist of free fatty acid receptor 1 (FFAR1/GPR40).[1] It induces calcium mobilization in CHO cells expressing FFAR1/GPR40 but not FFAR2/GPR43, FFAR3/GPR41, or FFAR4/GPR120 (EC_{50}s = 0.0135, >10, >10, and >10 ?M, respectively).[1,2] AMG 837 induces insulin secretion in MIN6 pancreatic β-cells and isolated mouse islets (EC_{50}s = 0.0048 and 0.142 ?M, respectively).[1,2] It decreases plasma glucose levels and increases plasma levels of insulin in Zucker *fa/fa* rats when administered at doses of 0.3, 1, and 3 mg/kg.[2] AMG 837 (100 mg/kg) also decreases plasma glucose and increases plasma insulin levels in a mouse model of diabetes induced by a high-fat diet and streptozotocin .[3]

1.Houze, J.B., Zhu, L., Sun, Y., et al.AMG 837: A potent, orally bioavailable GPR40 agonistBioorg. Med. Chem. Lett22(2)1267-1270(2012) 2.Lin, D.C.-H., Zhang, J., Zhuang, R., et al.AMG 837: A novel GPR40/FFA1 agonist that enhances insulin secretion and lowers glucose levels in rodentsPLoS One6(11)e27270(2011) 3.Luo, J., Swaminath, G.,

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Brown, S.P., et al.A potent class of GPR40 full agonists engages the enteroinsular axis to promote glucose control in rodentsPLoS One7(10)e46300(2012)

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