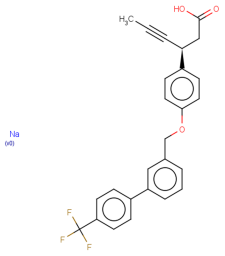
Data Sheet (Cat.No.T14215)

TargetMol

AMG 837 sodium salt

Chemical Properties



CAS No. : 865231-45-4

Formula: C26H21F3NaO3

Molecular Weight: 461.436

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	AMG 837 sodium salt is a potent GPR40 agonist(EC50=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 [±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 is a highly potent stimulator of insulin secretion in MIN6 cells with an EC50 comparable to that seen in the aequorin Ca2+-flux assay.
Targets(IC50)	Others,GPCR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1671 mL	10.8356 mL	21.6713 mL
5 mM	0.4334 mL	2.1671 mL	4.3343 mL
10 mM	0.2167 mL	1.0836 mL	2.1671 mL
50 mM	0.0433 mL	0.2167 mL	0.4334 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lin DC, et al. AMG 837: a novel GPR40/FFA1 agonist that enhances insulin secretion and lowers glucose levels in rodents. PLoS One. 2011;6(11):e27270.
Houze JB, et al. AMG 837: a potent, orally bioavailable GPR40 agonist. Bioorg Med Chem Lett. 2012 Jan 15;22(2):1267-70.

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