

AMG 837 calcium hydrate

Chemical Properties

CAS No.:	1259389-38-2
Formula:	N/A
Molecular Weight:	455.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	AMG 837 calcium hydrate is a potent GPR40 agonist (EC ₅₀ : 13 nM) with highly selective over GPR41, GPR43, and GPR120 (EC ₅₀ > 10,000 nM).
In vitro	GPR40 agonist AMG 837 displayed the expected two-fold increase in potency on GPR4 (EC ₅₀ : 13 nM) compared to the racemic compound and its activity crossed over to the rat and mouse forms of GPR40 (EC ₅₀ s: 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 weak inhibition (IC ₅₀ : 3 μM) on the α ₂ -adrenergic receptor [1].
In vivo	In rats, AMG 837 increases insulin release when glucose levels are elevated [2].

Solubility Information

Solubility	DMSO: 40 mg/mL (87.83 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.196 mL	10.978 mL	21.956 mL
5 mM	0.439 mL	2.196 mL	4.391 mL
10 mM	0.22 mL	1.098 mL	2.196 mL
50 mM	0.044 mL	0.22 mL	0.439 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Houze JB, et al. AMG 837: a potent, orally bioavailable GPR40 agonist. *Bioorg Med Chem Lett*. 2012 Jan 15;22(2):1267-70.
2. 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.

Inhibitors · Natural Compounds · Compound Libraries

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