

Certificate of Analysis

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Product Name: AMG 837 hemicalcium salt

Catalog No.: 6082

Batch No.: 1

CAS Number: 1291087-14-3

IUPAC Name: (βS)-β-1-Propyn-1-yl-4-[[4'-(trifluoromethyl)[1,1'-biphenyl]-3-yl]methoxy]benzenepropanoic acid hemicalcium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{26}H_{20}F_3O_3 \cdot \frac{1}{2}Ca \cdot 1\frac{1}{4}H_2O$

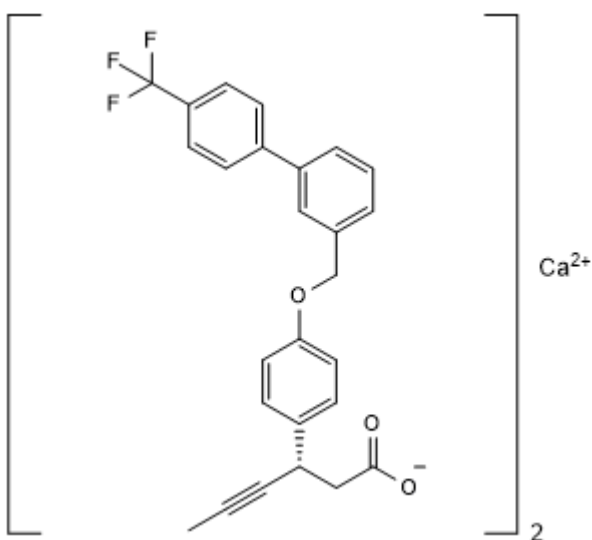
Batch Molecular Weight: 479.99

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.06	4.72	
Found	65.09	4.62	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

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 (Cat. No. 3687). Potentiates glucose-dependent stimulation of insulin in vivo. Antidiabetic.

Physical and Chemical Properties:

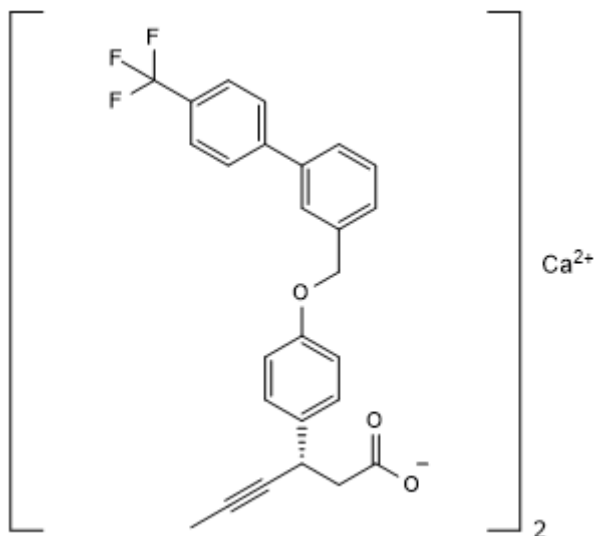
Batch Molecular Formula: C₂₆H₂₀F₃O₃·½Ca·1¼H₂O

Batch Molecular Weight: 479.99

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

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 insulin secretion and lowers glucose levels in rodents. *PLoS One* **6** e27270. PMID: 22087278.

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