

Certificate of Analysis

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Product Name: AM 4668

Catalog No.: 5789

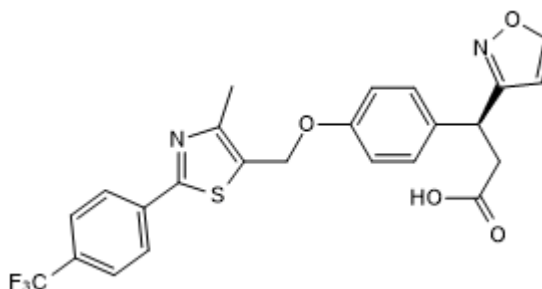
Batch No.: 1

CAS Number: 1011531-27-3

IUPAC Name: (βS)-β-[4-[[4-Methyl-2-[4-(trifluoromethyl)phenyl]-5-thiazolyl]methoxy]phenyl]-3-isoxazolepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₉F₃O₄S
Batch Molecular Weight: 488.48
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Dichloromethane:Methanol [9:1])
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.01	3.92	5.73
Found	59.33	3.73	5.89

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

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Description:

Potent FFA1 (GPR40) agonist (EC₅₀ = 3.6 nM in an IP₃ assay in GPR40 transfected A9 cells). Inhibits insulin secretion from isolated pancreatic islets. Reduces blood glucose levels following oral glucose challenge in mice. Orally bioavailable.

Physical and Chemical Properties:

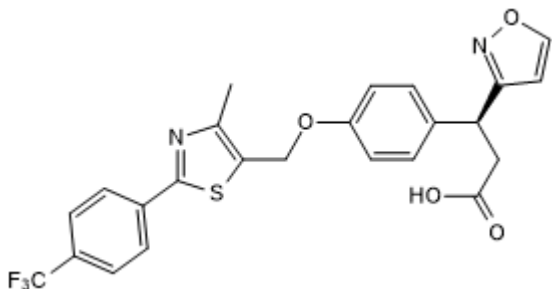
Batch Molecular Formula: C₂₄H₁₉F₃O₄S

Batch Molecular Weight: 488.48

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Liu *et al* (2014) Optimization of GPR40 agonists for type 2 diabetes. ACS Med.Chem.Lett. **5** 517. PMID: 24900872 .

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