

Product Name: AS 2034178

Catalog No.: 5035

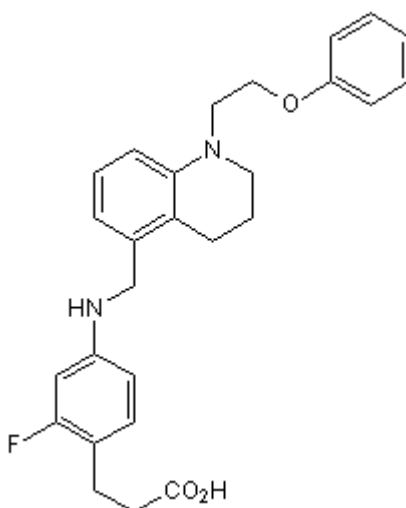
Batch No.: 1

CAS Number: 1030846-42-4

IUPAC Name: 2-Fluoro-4-[[[1,2,3,4-Tetrahydro-1-(2-phenoxyethyl)-5-quinolinyl]methyl]amino]benzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₉FN₂O₃·H₂O
Batch Molecular Weight: 466.55
Physical Appearance: White solid
Solubility: DMSO to 50 mM
ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.44 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows >98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.51	6.7	6
Found	69.36	6.44	5.92

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

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Description:

Selective free fatty acid receptor 1 (FFA₁/GPR40) agonist. Exhibits selectivity for GPR40 over GPR41, GPR43, GPR119, GPR120 and PPAR γ . Induces glucose-dependent insulin secretion in pancreatic MIN6 cells and in vivo. Enhances insulin sensitivity in a type 2 diabetes model in vivo. Orally available.

Physical and Chemical Properties:

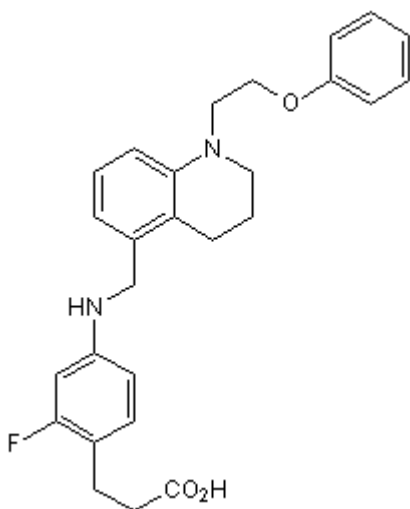
Batch Molecular Formula: C₂₇H₂₉FN₂O₃.H₂O

Batch Molecular Weight: 466.55

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 20 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:

Tanaka et al (2013) Chronic treatment with novel GPR40 agonists improve whole-body glucose metabolism based on the glucose-dependent insulin secretion. **346** 443. PMID: 23853170.

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