

Product Name: TUG 891

Catalog No.: 4601

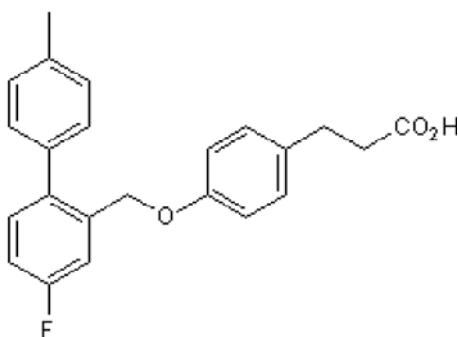
Batch No.: 2

CAS Number: 1374516-07-0

IUPAC Name: 4-[(4-Fluoro-4'-methyl[1,1'-biphenyl]-2-yl)methoxy]-benzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₁FO₃
Batch Molecular Weight: 364.41
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.44 (Ethyl acetate:Petroleum ether [1:2])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.81	5.81	
Found	75.53	5.89	

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

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Description:

Potent FFA4 (GPR120) agonist (pEC₅₀ values are 7.36 and 7.77 for human and mouse GPR120 respectively). Selective for GPR120 over free fatty acid receptors (pEC₅₀ = 4.19 for FFA1; displays no activity at FFA2 or FFA3). Cell permeable.

Physical and Chemical Properties:

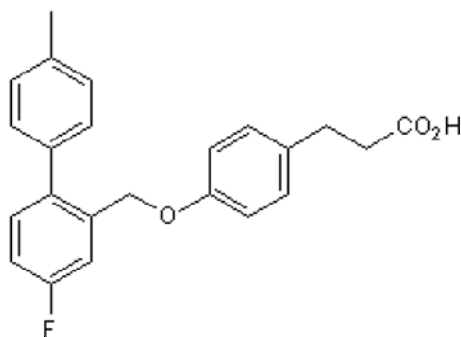
Batch Molecular Formula: C₂₃H₂₁FO₃

Batch Molecular Weight: 364.41

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

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.

Licensing Information:

Sold under license from the University of Southern Denmark.

References:

Shimpukade et al (2012) Discovery of a potent and selective GPR120 agonist. *J.Med.Chem.* **55** 4511. PMID: 22519963.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956