

Certificate of Analysis

Print Date: Jun 16th 2016

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Product Name: DC 260126 Catalog No.: 5357 Batch No.: 1

CAS Number: 346692-04-4

IUPAC Name: N-(4-Butylphenyl)-4-fluorobenzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

 $C_{16}H_{18}FNO_2S$ **Batch Molecular Formula:**

Batch Molecular Weight: 307.38 White solid **Physical Appearance:**

Solubility: DMSO to 100 mM

ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

Consistent with structure ¹H NMR: Consistent with structure

Mass Spectrum: Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 62.52 4.56 5.9 Found 62.59 5.9 4.53



Product Information

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IUPAC Name: N-(4-Butylphenyl)-4-fluorobenzenesulfonamide

Description:

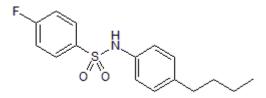
Free fatty acid receptor 1 (FFA1/GPR40) antagonist. Inhibits FFA-induced increases in intracellular Ca²+ levels and suppresses palmitic acid potentiated glucose-stimulated insulin secretion in Min6 pancreatic β cells in vitro. Decreases serum insulin levels, improves insulin sensitivity and reduces the number of apoptotic pancreatic β cells in obese diabetic (db/db) rats.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₁₈FNO₂S Batch Molecular Weight: 307.38 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:

Sun *et al* (2013) DC260126: a small-molecule antagonist of GPR40 that protects against pancreatic β-Cells dysfunction in db/db mice. PLoS ONE *8* e66744. PMID: 23776696.

Zhang et al (2010) DC260126, a small-molecule antagonist of GPR40, improves insulin tolerance but not glucose tolerance in obese Zucker rats. Biomed.Pharmacother. **64** 647. PMID: 20888730.

Hu et al (2009) A novel class of antagonists for the FFAs receptor GPR40. Biochem.Biophys.Res.Comm. 390 557. PMID: 19818732.