

## Catalog # 10-1531 DC-260126

346692-04-4 N-4(Butylphenyl)-4-fluorobenzenesulfonamide Lot # X106501



A GPR40 receptor antagonist<sup>1</sup>. Suppresses fatty acid-induced elevation of intracellular Ca<sup>++</sup>. Inhibits palmitic acid potentiated glucose–stimulated insulin secretion in Min6 pancreatic  $\beta$  cells *in vitro*. Lowers serum insulin levels, increases insulin sensitivity<sup>2</sup> in obese Zucker rats (6 mg/kg)<sup>2</sup>. Reduces pancreatic  $\beta$  cell apoptosis in obese diabetic (*db/db*) rats<sup>3</sup>. Protects Min6  $\beta$  cells from palmitic acid-induced ER stress and apoptosis<sup>4</sup>.

- Hu et al. (2009), A novel class of antagonist for the FFAs receptor GPR40; Biochem. Biophys. Res. Commun., 390 557
- 2) 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
- 3) 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(6)** e66744
- 4) Wu et al. (2012), Inhibition of GPR40 protects MIN6 β cells from palmitate-induced ER stress and apoptosis; J. Biochem, 113 1152

## PHYSICAL DATA

Molecular Weight:	307.37
Molecular Formula:	C <sub>16</sub> H <sub>18</sub> NO <sub>2</sub> S
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 80 mg/ml), Ethanol (up to 80 mg/ml)
Physical Description:	Brown waxy solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in
	DMSO or ethanol may be stored at -20°C for up to 3 months.

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