

Catalog	Unit
TBI1531-5MG	5 mg
TBI1531-25MG	25 mg

Product Details

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

Molecular Formula: C₁₆H₁₈NO₂S

Formula Weight: 307.37

CAS Number: 346692-04-4

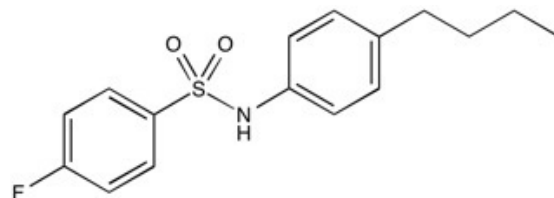
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 80 mg/ml) or in Ethanol (up to 80 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

GPR40 antagonist

Functions

A GPR40 receptor antagonist. Suppresses fatty acid-induced elevation of intracellular Ca⁺⁺. Inhibits palmitic acid potentiated glucose-stimulated insulin secretion in Min6 pancreatic β cells in vitro. Lowers serum insulin levels, increases insulin sensitivity² in obese Zucker rats (6 mg/kg). Reduces pancreatic β cell apoptosis in obese diabetic (db/db) rats. Protects Min6 β cells from palmitic acid-induced ER stress and apoptosis.

Application Procedures

First dissolved in DMSO (up to 80 mg/ml) or in Ethanol (up to 80 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

For research use only.