



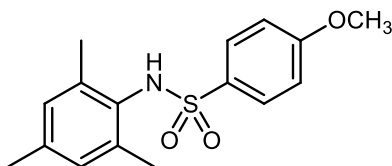
Catalog # 10-1516

GSK-137647

349085-82-1

4-Methoxy-N-(2,4,6-trimethylphenyl)benzenesulfonamide

Lot # X106908



Potent and selective agonist at free fatty acid receptor 4 (FFA₄), also known as GPR120. pEC₅₀s= 6.3, 6.2 and 6.1 for human, mouse and rat receptor respectively¹. Enhances glucose-stimulated insulin secretion in mouse insulinoma cells and induces intracellular calcium increase in U2OS osteosarcoma cells expressing GPR120².

- 1) Martin *et al.* (2012), *Lipid-mediated release of GLP-1 by mouse taste buds from circumvallate papillae: putative involvement of GPR120 and impact on taste sensitivity*; J. Lipid Res., **53** 2256
- 2) Sparks *et al.* (2014), *Identification of diarylsulfonamides as agonists of the free fatty acid receptor 4 (FFA₄/GPR120)*; Bioorg. Med. Chem. Lett., **24** 3100

PHYSICAL DATA

Molecular Weight:	305.40
Molecular Formula:	C ₁₆ H ₁₉ NO ₃ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml), Ethanol (up to 8 mg/ml with warming)
Physical Description:	Off-white 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 1 month.

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