

Product Name: ML 184

Catalog No.: 6668

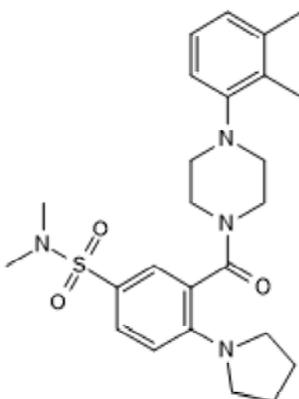
Batch No.: 1

CAS Number: 794572-10-4

IUPAC Name: 3-[[4-(2,3-Dimethylphenyl)-1-piperazinyl]carbonyl]-*N,N*-dimethyl-4-(1-pyrrolidinyl)benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₄N₄O₃S
Batch Molecular Weight: 470.63
Physical Appearance: White solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.63 (Ethyl acetate:Petroleum ether [3:1])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.8	7.28	11.9
Found	63.7	7.65	11.94

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

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IUPAC Name: 3-[[4-(2,3-Dimethylphenyl)-1-piperazinyl]carbonyl]-N,N-dimethyl-4-(1-pyrrolidinyl)benzenesulfonamide

Description:

Selective GPR55 agonist (EC₅₀ = 250 nM). Exhibits >100-fold selectivity for GPR55 over GPR35, CB₁ and CB₂. Increases proliferation of neural stem cells and promotes neuronal differentiation in vitro.

Physical and Chemical Properties:

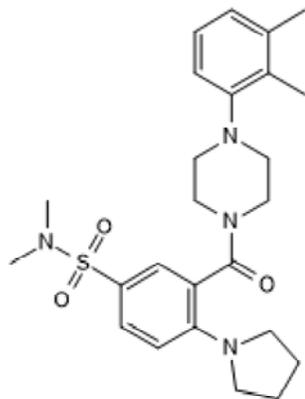
Batch Molecular Formula: C₂₅H₃₄N₄O₃S

Batch Molecular Weight: 470.63

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 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:

Hill *et al* (2018) Activation of GPR55 increases neural stem cell proliferation and promotes early adult hippocampal neurogenesis. *Br.J.Pharmacol.* **175** 3407. PMID: 29888782.

Kotsikorou *et al* (2011) Identification of the GPR55 agonist binding site using a novel set of high-potency GPR55 selective ligands. *Biochemistry* **50** 5633. PMID: 21534610.

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