

Product Name: BRL 50481

Catalog No.: 2237

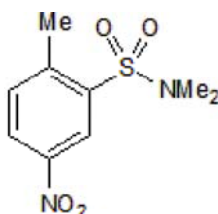
Batch No.: 1

CAS Number: 433695-36-4

IUPAC Name: *N,N*,2-Trimethyl-5-nitro-benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₂N₂O₄S
Batch Molecular Weight: 244.26
Physical Appearance: Cream solid
Solubility: ethanol to 100 mM
 DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Hexane [3:7])
Melting Point: Between 70 - 71°C
HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.25	4.95	11.46
Found	43.92	4.89	11.29

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

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CAS Number: 433695-36-4

IUPAC Name: *N,N*,2-Trimethyl-5-nitro-benzenesulfonamide

Description:

Selective, substrate-competitive inhibitor of phosphodiesterase (PDE) 7 ($K_i = 180$ nM). Displays > 200-fold selectivity over PDE1B, PDE1C, PDE2, PDE3, PDE4A4 and PDE5.

Physical and Chemical Properties:

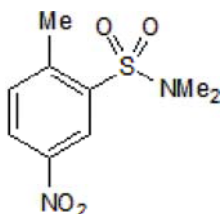
Batch Molecular Formula: $C_9H_{12}N_2O_4S$

Batch Molecular Weight: 244.26

Physical Appearance: Cream solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 100 mM

DMSO 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.

Licensing Information:

Sold with the permission of GlaxoSmithKline

References:

Smith *et al* (2004) Discovery of BRL 50481 [3-(*N,N*-dimethylsulfonamido)-4-methyl-nitrobenzene], a selective inhibitor of phosphodiesterase 7: in vitro studies in human monocytes, lung macrophages, and CD8⁺ T-lymphocytes. *Mol.Pharmacol.* **66** 1679. PMID: 15371556.

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