

Product Name: MS 21570

Catalog No.: 6298

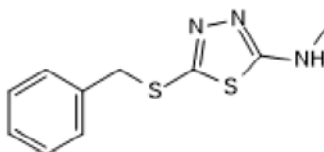
Batch No.: 1

CAS Number: 65373-29-7

IUPAC Name: *N*-Methyl-5-[(phenylmethyl)thio]-1,3,4-thiazadiazol-2-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₁N₃S₂
Batch Molecular Weight: 237.34
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.6	4.67	17.7
Found	50.64	4.7	17.8

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

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IUPAC Name: N-Methyl-5-[(phenylmethyl)thio]-1,3,4-thiazadiazol-2-amine

Description:

GPR171 antagonist (IC₅₀ = 220 nM). Inhibits BigLEN (Cat.No. 6304) mediated increases in [³⁵S]GTPγS binding in hypothalamic membranes and hyperpolarization of basolateral amygdala pyramidal neurons. Reduces anxiety-like behavior and fear conditioning in mice.

Physical and Chemical Properties:

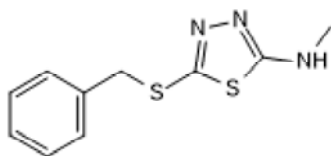
Batch Molecular Formula: C₁₀H₁₁N₃S₂

Batch Molecular Weight: 237.34

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

References:

Bobbeck et al (2017) The BigLEN-GPR171 peptide receptor system within the basolateral amygdala regulates anxiety-like behavior and contextual fear conditioning. *Neuropsychopharmacology*. PMID: 28425495.

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