

Certificate of Analysis

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Product Name: SU 3327

Catalog No.: 3607

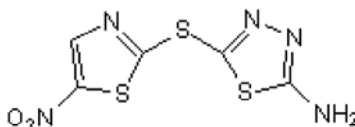
Batch No.: 1

CAS Number: 40045-50-9

IUPAC Name: 5-[(5-Nitro-2-thiazolyl)thio]-1,3,4thiadiazol-2-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅H₃N₅O₂S₃
Batch Molecular Weight: 261.3
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.32 (Ethyl acetate:Hexane [9:1])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	22.98	1.16	26.8
Found	23.05	1.17	26.72

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

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CAS Number: 40045-50-9

IUPAC Name: 5-[(5-Nitro-2-thiazolyl)thio]-1,3,4thiadiazol-2-amine

Description:

Selective inhibitor of c-Jun N-terminal kinase (JNK) (IC_{50} = 0.7 μ M). Inhibits the protein-protein interaction between JNK and JIP (IC_{50} = 239 nM). Displays selectivity over p38 MAPK and Akt. Restores insulin sensitivity in a mouse model of type-2 diabetes. Displays antibiotic activity against a range of bacteria including *S.aureus*, *A.baumannii*, *C.difficile* and *M.tuberculosis*.

Physical and Chemical Properties:

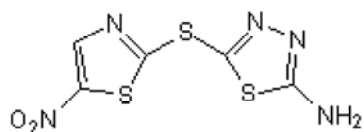
Batch Molecular Formula: $C_5H_3N_5O_2S_3$

Batch Molecular Weight: 261.3

Physical Appearance: Yellow solid

Minimum Purity: $\geq 99\%$

Batch Molecular Structure:



References:

De et al (2009) Design, synthesis and structure-activity relationship of substrate competitive, selective, and in vivo active triazole and thiadiazole inhibitors of the c-jun N-terminal kinase. *J.Med.Chem.* **52** 1943. PMID: 19271755.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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.

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