

Product Name: Ro 106-9920

Catalog No.: 1778

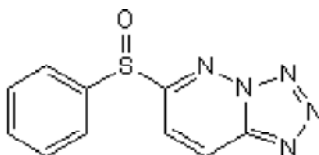
Batch No.: 1

CAS Number: 62645-28-7

IUPAC Name: 6-(Phenylsulfinyl)tetrazolo[1,5-*b*]pyridazine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₇N₅OS
Batch Molecular Weight: 245.26
Physical Appearance: White solid
Solubility: ethanol to 5 mM
 DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Ethyl acetate:Petroleum ether [1:1])
Melting Point: At 151°C
HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure

| | Carbon Hydrogen Nitrogen | | |
|-------------|--------------------------|----------|----------|
| | Carbon | Hydrogen | Nitrogen |
| Theoretical | 48.97 | 2.88 | 28.55 |
| Found | 48.99 | 2.86 | 28.44 |

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

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Description:

Inhibitor of NF- κ B activation, possibly via selective inhibition of LPS- and TNF- α -induced I κ B α ubiquitination (IC₅₀ = 3 μ M). Blocks subsequent production of TNF- α , IL-1 β and IL-6. Inhibits mucin production in an in vitro model of COPD, and is anti-inflammatory following oral administration in vivo. Also weakly inhibits EGFR, 5-lipoxygenase and iNOS.

Physical and Chemical Properties:

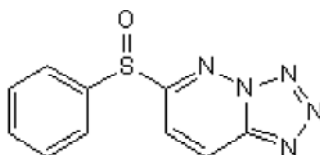
Batch Molecular Formula: C₁₀H₇N₅OS

Batch Molecular Weight: 245.26

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 5 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.

References:

Baginski et al (2002) Glucocorticoid modulation of MUC5AC secretion in H292 cells. Am.Soc.Cell Biol.Abstr. 765.

Swinney et al (2002) A small molecule ubiquitination inhibitor blocks NF- κ B-dependent cytokine expression in cells and rats. J.Biol.Chem. **277** 23573. PMID: 11950839.

Conalty et al (1976) Anticancer agents. XII. Pyridazine and benzodiazine derivatives. Proc.R.Ir.Acad.B. **76** 151. PMID: 967871.

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