

Product Name: P3S

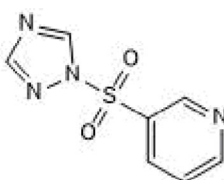
Catalog No.: 7974

Batch No.: 1

IUPAC Name: 3-((1*H*-1,2,4-Triazol-1-yl)sulfonyl)pyridine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₆N₄O₂S
Batch Molecular Weight: 210.21
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	39.99	2.88	26.65
Found	39.97	2.83	26.66

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

Product Name: P3S

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1

IUPAC Name: 3-((1*H*-1,2,4-Triazol-1-yl)sulfonyl)pyridine

Description:

P3S is a pyridine sulfonyl triazole able to modify RNA via RNA 2'-OH sulfonylation. P3S can be used for RNA SHAPE-MaP experiments in cell lines or live bacteria. It is stable in aqueous media (with half-lives of several hours) even at room temperature.

Physical and Chemical Properties:

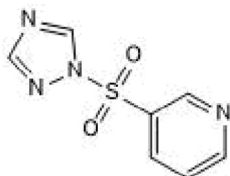
Batch Molecular Formula: C₇H₆N₄O₂S

Batch Molecular Weight: 210.21

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

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:

Chatterjee *et al* (2023) Sulfonylation of RNA 2'-OH groups. ACS Cent.Sci. **9** 531. PMID: 36968531.

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