

**Product Name:** P3S

**Catalog No.:** 7974

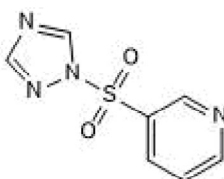
**Batch No.:** 1

CAS Number: 2988852-68-0

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>7</sub>H<sub>6</sub>N<sub>4</sub>O<sub>2</sub>S  
**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  
**<sup>1</sup>H 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

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**1**

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**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:**

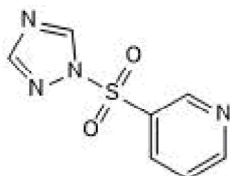
Batch Molecular Formula: C<sub>7</sub>H<sub>6</sub>N<sub>4</sub>O<sub>2</sub>S

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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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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