

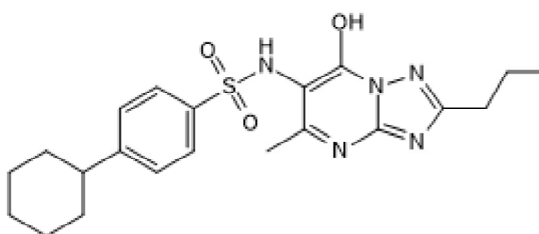
# Certificate of Analysis

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**Product Name:** GNE 9278 **Catalog No.:** 6369 **Batch No.:** 2  
**CAS Number:** 901230-11-3  
**IUPAC Name:** 4-Cyclohexyl-*N*-(7-hydroxy-5-methyl-2-propyl[1,2,4]triazolo[1,5-*a*]pyrimidin-6-yl)benzenesulfonamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>27</sub>N<sub>5</sub>O<sub>3</sub>S  
**Batch Molecular Weight:** 429.54  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.72	6.34	16.3
Found	58.35	6.4	16.13

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

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**Description:**

GNE 9278 is a positive allosteric modulator of NMDA receptors. Potentiates NMDA receptors containing GluN2A, 2B, 2C and 2D subunits (EC<sub>50</sub> values are 0.74, 3.07, 0.47 and 0.32 µM in a Ca<sup>2+</sup> influx assay, respectively). Binds within the transmembrane domain and displays preference for agonist-bound NMDA receptors. Slows receptor deactivation and enhances the potency of glutamate and glycine.

**Physical and Chemical Properties:**

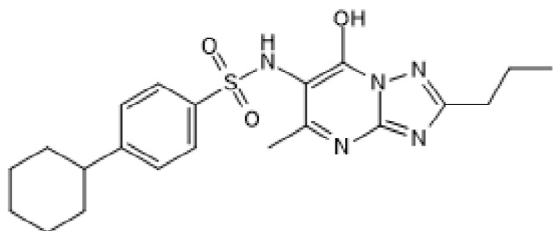
Batch Molecular Formula: C<sub>21</sub>H<sub>27</sub>N<sub>5</sub>O<sub>3</sub>S

Batch Molecular Weight: 429.54

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°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:**

**Wang et al** (2017) A novel NMDA receptor positive allosteric modulator that acts via the transmembrane domain. *Neuropharmacology*. **121** 204. PMID: 28457974.

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