

Certificate of Analysis

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Product Name: TC-N 22A

Catalog No.: 4370

Batch No.: 1

CAS Number: 1314140-00-5

IUPAC Name: 4,5,6,8-Tetrahydro-*N*-2-pyridinylpyrazolo[3',4':6,7]cyclohepta[1,2]thiazol-2-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₃N₅S·¼H₂O

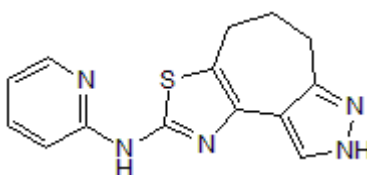
Batch Molecular Weight: 287.85

Physical Appearance: Pale orange solid

Solubility: DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

	Carbon	Hydrogen	Nitrogen
Theoretical	58.42	4.73	24.33
Found	58.15	4.44	24.5

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

Product Information

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Description:

Potent and selective mGlu₄ receptor positive allosteric modulator (EC₅₀ = 9 nM in human mGlu₄-expressing BHK cells). Selective for mGlu₄ over mGlu₁, mGlu₂, mGlu₃, mGlu₅ and mGlu₇ receptors (EC₅₀ values are > 10 μM). Brain penetrant.

Physical and Chemical Properties:

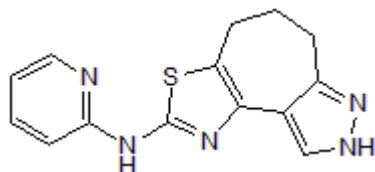
Batch Molecular Formula: C₁₄H₁₃N₅S.½H₂O

Batch Molecular Weight: 287.85

Physical Appearance: Pale orange solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

Hong et al (2011) Tricyclic thiazolopyrazole derivatives as metabotropic glutamate receptor 4 positive allosteric modulators. *J. Med. Chem.* **54** 5070. PMID: 21688779.

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