

Certificate of Analysis

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Product Name: TCN 238

Catalog No.: 4259

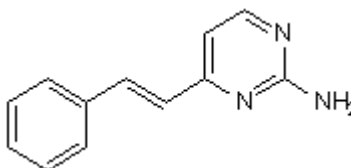
Batch No.: 1

CAS Number: 125404-04-8

IUPAC Name: (E)-4-(2-Phenylethenyl)-2-pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₁N₃
Batch Molecular Weight: 197.24
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.07	5.62	21.3
Found	72.88	5.54	21.38

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

Product Information

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Catalog No.: 4259

Batch No.: 1

CAS Number: 125404-04-8

IUPAC Name: (E)-4-(2-Phenylethenyl)-2-pyrimidinamine

Description:

Positive allosteric modulator of mGlu₄ receptors (EC₅₀ = 1.0 µM for human and rat mGlu₄ receptors). Orally available and brain penetrant.

Physical and Chemical Properties:

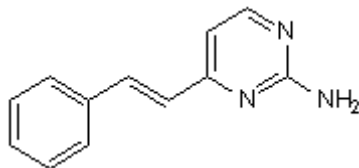
Batch Molecular Formula: C₁₂H₁₁N₃

Batch Molecular Weight: 197.24

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

East et al (2010) An orally bioavailable positive allosteric modulator of the mGlu₄ receptor with efficacy in an animal model of motor dysfunction. *Bioorg.Med.Chem.Lett.* **20** 4901. PMID: 20638279.

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