Certificate of Analysis

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Print Date: Feb 12th 2020

Product Name: TNP

biotechne

CR

CAS Number: 519178-28-0

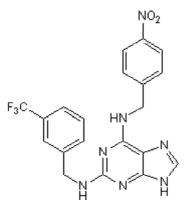
 N^{6} -[(4-nitrophenyl)methyl]- N^{2} -[[3-(trifluoromethyl)phenyl]methyl]-9*H*-Purine-2,6-diamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{20}H_{16}F_3N_7O_2$ 443.38 Beige solid DMSO to 100 mM ethanol to 25 mM Store at +4°C

Storage:

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 54.18 3.64 22.11 Found 54.05 3.61 22.1

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

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Catalog No.: 3946 B

Batch No.: 2

TOCRIS a biotechne brand

Batch No.: 2

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Product Name: TNP

CAS Number: 519178-28-0

IUPAC Name:

N⁶-[(4-nitrophenyl)methyl]-N²-[[3-(trifluoromethyl)phenyl]methyl]-9H-Purine-2,6-diamine

Description:

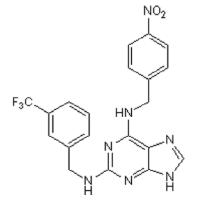
Reversible inositol hexakisphosphate kinase (IP6K) inhibitor (IC₅₀ = 0.47 μ M for inhibition of InsP₇ formation). Also inhibits inositol 1,4,5-trisphosphate 3-kinase (IP3K) (IC₅₀ = 10.2 μ M). Binds to the ATP binding site of IP3K (K_i = 4.3 μ M).

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₁₆F₃N₇O₂ Batch Molecular Weight: 443.38 Physical Appearance: Beige solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Catalog No.: 3946

Solubility & Usage Info:

DMSO to 100 mM ethanol to 25 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:

Padmanabhan *et al* (2009) Characterization of a selective inhibitor of inositol hexakisphosphate kinases. Use in defining biological roles and metabolic relationships of inositol pyrophosphates. J.Biol.Chem. **284** 10571. PMID: 19208622.

Chang et al (2002) Purine-based inhibitors of inositol-1,4,5-trisphosphate-3-kinase. Chembiochem 3 897. PMID: 12210991.

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