TOCRIS a biotechne brand

Print Date: Jan 14th 2016

Batch No.: 2

Certificate of Analysis

www.tocris.com

Catalog No.: 3727

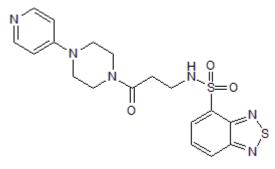
Product Name: VU 0255035

CAS Number: IUPAC Name: 1135243-19-4

N-[3-Oxo-3-[4-(4-pyridinyl)-1-piperazinyl]propyl]-2,1,3-benzothiadiazole-4-sulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Storage: Batch Molecular Structure: C₁₈H₂₀N₆O₃S₂.³/₄H₂O 446.03 Yellow solid Store at -20°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.68 (Dichloromethane-2M:NH3:Methanol [10:1]) Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 48.47 4.86 18.84

medielical	40.47	4.00	10.04
Found	48.47	4.93	18.86

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

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ne: N-[3-Oxo-3-[4-(4-pyridinyl)-1-piperazinyl]propyl]-2,1,3-benzothiadiazole-4-sulfonamide

Description:

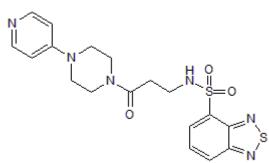
Highly selective muscarinic M_1 antagonist ($K_i = 14.87$ nM). Targets the M_1 orthosteric site with greater than 75-fold selectivity over the other receptor subtypes. Reduces pilocarpine-induced seizures in mice. Brain penetrant.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{18}H_{20}N_6O_3S_2$.³4H₂O Batch Molecular Weight: 446.03 Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

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).

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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:

Sheffler et al (2009) A novel selective muscarinic acetylcholine receptor subtype 1 antagonist reduces seizures without impairing hippocampus-dependent learning. Mol.Pharmacol. 76 356. PMID: 19407080.

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