TOCRIS a biotechne brand

Print Date: Jan 15th 2016

Certificate of Analysis

www.tocris.com

Product Name: VU 10010

Catalog No.: 3141 Batch No.: 1

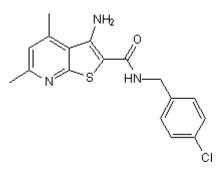
CAS Number: IUPAC Name: 633283-39-3

3-Amino-N-[(4-chlorophenyl)methyl]-4,6-dimethylthieno[2,3-b]pyridine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: Batch Molecular Structure: $C_{17}H_{16}CIN_3OS.\frac{1}{2}H_2O$ 354.86 Yellow solid DMSO to 100 mM ethanol to 10 mM Store at +4°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.3% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	57.54	4.83	11.84
Found	57.4	4.96	11.84

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

TOCRIS a biotechne brand

Print Date: Jan 15th 2016

Batch No.: 1

www.tocris.com

Product Name: VU 10010

CAS Number: 633283-39-3 IUPAC Name: 3-Amino-*N*-[(

3-Amino-N-[(4-chlorophenyl)methyl]-4,6-dimethylthieno[2,3-b]pyridine-2-carboxamide

Description:

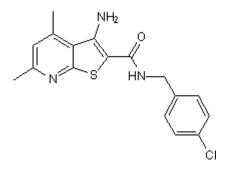
Selective allosteric potentiator of M_4 acetylcholine receptors (EC_{\rm 50} values are 33 and 0.7 nM for ACh in the absence and presence of VU10010 respectively). Binds to an allosteric site on the receptor increasing affinity for ACh and coupling to G-proteins.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₁₆ClN₃OS. ½H₂O Batch Molecular Weight: 354.86 Physical Appearance: Yellow solid

Minimum Purity: >99%

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).

Catalog No.: 3141

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:

Shirey *et al* (2008) An allosteric potentiator of M_4 mAChR modulates hippocampal synaptic transmission. Nat.Chem.Biol. **4** 42. PMID: 18059262.

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956