

Certificate of Analysis

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Product Name: VU 152100

Catalog No.: 3383

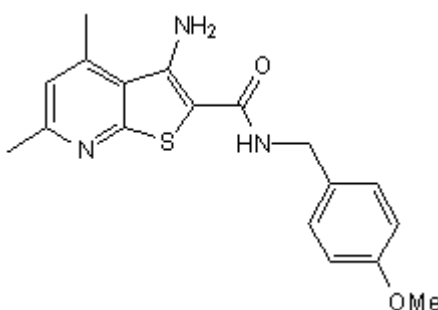
Batch No.: 2

CAS Number: 409351-28-6

IUPAC Name: 3-Amino-*N*-(4-methoxybenzyl)-4,6-dimethylthieno[2,3-*b*]pyridine carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₉N₃O₂S
Batch Molecular Weight: 341.43
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.32	5.61	12.31
Found	62.96	5.62	12.41

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

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Description:

Selective positive allosteric modulator of M₄ muscarinic acetylcholine receptors (mAChRs) (EC₅₀ = 380 nM). Induces 21-fold shift in ACh potency at M₄ receptor. Displays no activity at other mAChR subtypes.

Physical and Chemical Properties:

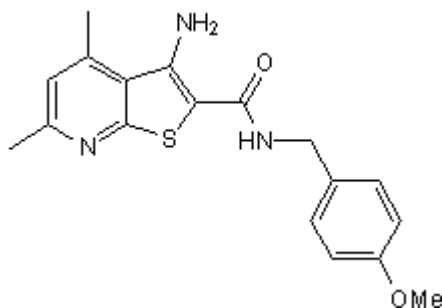
Batch Molecular Formula: C₁₈H₁₉N₃O₂S

Batch Molecular Weight: 341.43

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

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:

Brady et al (2008) Centrally active allosteric potentiators of the M₄ muscarinic acetylcholine receptor reverse amphetamine-induced hyperlocomotor activity in rats. *J.Pharmacol.Exp.Ther.* **327** 941. PMID: 18772318.

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