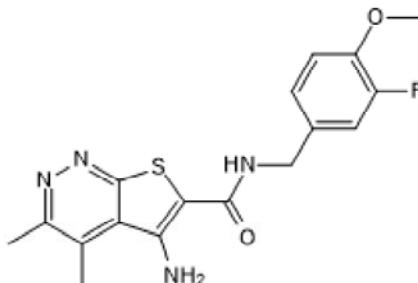


Certificate of Analysiswww.tocris.com**Product Name:** VU 0467485**Catalog No.:** 6932**Batch No.:** 1

CAS Number: 1451994-10-7

IUPAC Name: 5-Amino-N-[(3-fluoro-4-methoxyphenyl)methyl]-3,4-dimethylthieno[2,3-c]pyridazine-6-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES**Batch Molecular Formula:** C₁₇H₁₇FN₄O₂S**Batch Molecular Weight:** 360.41**Physical Appearance:** Orange solid**Solubility:** DMSO to 20 mM**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99.0% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 56.65 4.75 15.55

Found 56.62 4.79 15.5

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors

Tel: +1 612 379 2956

Product Information

www.tocris.com
Product Name: VU 0467485

Catalog No.: 6932

Batch No.: 1

CAS Number: 1451994-10-7

IUPAC Name: 5-Amino-N-[(3-fluoro-4-methoxyphenyl)methyl]-3,4-dimethylthieno[2,3-c]pyridazine-6-carboxamide

Description:

Potent and selective positive allosteric modulator of M₄ receptor; potentiates activity of ACh at M₄ (EC₅₀ values are 26.6 and 78.8 nM at rat and human M₄ receptors, respectively). Exhibits selectivity for M₄ over human and rat M_{1-3, 5}, and a panel of 200 other pharmacological targets. Displays efficacy in a rat model of antipsychotic activity. Orally bioavailable and brain penetrant.

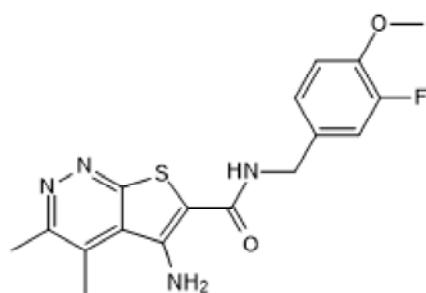
Physical and Chemical Properties:

 Batch Molecular Formula: C₁₇H₁₇FN₄O₂S

Batch Molecular Weight: 360.41

Physical Appearance: Orange solid

Minimum Purity: >98%

Batch Molecular Structure:

References:

Wood *et al* (2016) Discovery of VU0467485/AZ13713945: an M₄ PAM evaluated as a preclinical candidate for the treatment of schizophrenia. ACS Med.Chem.Lett. **8** 233. PMID: 28197318.

Storage: Store at -20°C

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

Solubility & Usage Info:

DMSO to 20 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.

Licensing Information:

Sold under license from Vanderbilt University.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors

Tel: +1 612 379 2956