

Product Name: A 1070722

Catalog No.: 4431

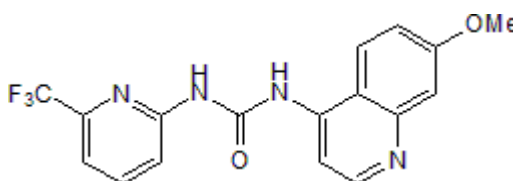
Batch No.: 1

CAS Number: 1384424-80-9

IUPAC Name: 1-(7-Methoxyquinolin-4-yl)-3-[6-(trifluoromethyl)pyridin-2-yl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₃F₃N₄O₂
Batch Molecular Weight: 362.31
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Chloroform:Methanol [97.5:2.5])
HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.36	3.62	15.46
Found	56.36	3.72	15.53

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

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IUPAC Name: 1-(7-Methoxyquinolin-4-yl)-3-[6-(trifluoromethyl)pyridin-2-yl]urea

Description:

Potent glycogen synthase kinase-3 (GSK-3) inhibitor ($K_i = 0.6$ nM for GSK-3 α and GSK-3 β). Displays high selectivity (> 50-fold) for GSK-3 over a panel of other kinases tested, including CDK family members. Decreases phosphorylation of microtubule-associated protein Tau in vitro; protects rat primary cortical neurons against β amyloid and glutamate challenge. Brain penetrant.

Physical and Chemical Properties:

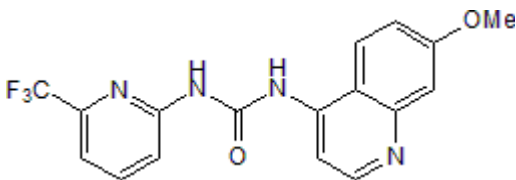
Batch Molecular Formula: C₁₇H₁₃F₃N₄O₂

Batch Molecular Weight: 362.31

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Bakker et al (2011) A-1070722, a potent, selective, and centrally active glycogen synthase kinase-3 (GSK-3) inhibitor for the treatment of psychiatric and neurodegenerative disorders. Society for Neuroscience (Abstract) 568.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 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.

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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