bio-techne
TOCRIS

Print Date: May 10th 2024

Certificate of Analysis

www.tocris.com

Product Name: **TCS JNK 6o** **Catalog No.: 3222** **Batch No.: 6**

CAS Number: 894804-07-0

IUPAC Name: *N*-(4-Amino-5-cyano-6-ethoxy-2-pyridinyl)-2,5-dimethoxybenzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{20}N_4O_4$

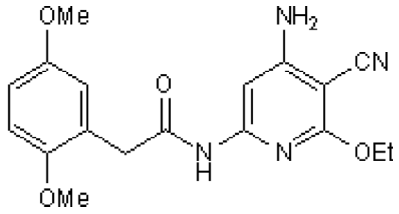
Batch Molecular Weight: 356.38

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [49:1])

HPLC: Shows 99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.66	5.66	15.72
Found	60.37	5.68	15.71

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

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Description:

TCS JNK 6o is an ATP-competitive c-Jun N-terminal kinase (JNK) inhibitor (IC_{50} values are 2, 4 and 52 nM for JNK1, JNK2 and JNK3 respectively). Displays > 1000 fold selectivity over other kinases, including ERK2 and p38. Inhibits c-Jun phosphorylation (EC_{50} = 920 nM) and prevents collagen-induced platelet aggregation in vitro. TCS JNK 6o synthesized to Ancillary Material Grade also available.

Physical and Chemical Properties:

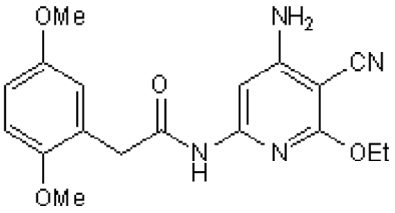
Batch Molecular Formula: $C_{18}H_{20}N_4O_4$

Batch Molecular Weight: 356.38

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Kauskot *et al* (2007) Involvement of the mirogen-activated protein kinase c-Jun NH_2-terminal kinase 1 in thrombus formation. J.Biol.Chem. ***282*** 31990. PMID: 17785464.

Szczepankiewicz *et al* (2006) Aminopyridine-based c-Jun N-terminal kinase inhibitors with cellular activity and minimal cross-kinase activity. J.Med.Chem. ***49*** 3563. PMID: 16759099.