

## Certificate of Analysis

**Product Name:** TCS JNK 5a

**Catalog No.:** 2827

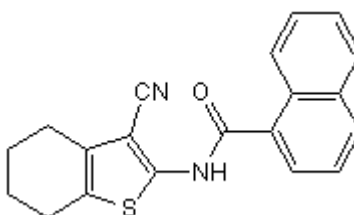
**Batch No.:** 1

CAS Number: 312917-14-9

IUPAC Name: *N*-(3-Cyano-4,5,6,7-tetrahydrobenzo[*b*]thienyl-2-yl)-1-naphthalenecarboxamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>16</sub>N<sub>2</sub>OS  
**Batch Molecular Weight:** 332.42  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.33 (Dichloromethane:Petroleum ether [40:60])  
**HPLC:** Shows >99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.26	4.85	8.43
Found	71.81	4.87	8.44

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

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**Description:**

Selective inhibitor of JNK2 and JNK3 (pIC<sub>50</sub> values are 6.7, 6.5, <5.0 and <4.8 for JNK3, JNK2, JNK1 and p38α respectively). Displays no significant activity at a range of other protein kinases including EGFR, ErbB2, cdk2, PLK-1 and Src (pIC<sub>50</sub> < 5.0).

**Physical and Chemical Properties:**

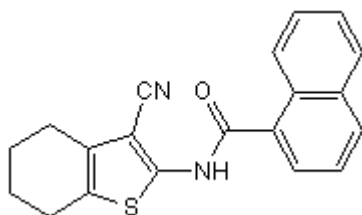
Batch Molecular Formula: C<sub>20</sub>H<sub>16</sub>N<sub>2</sub>OS

Batch Molecular Weight: 332.42

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Angell et al** (2007) *N*-(3-cyano-4,5,6,7-tetrahydro-1-benzothien-2-yl)amides as potent, selective, inhibitors of JNK2 and JNK3. *Bioorg.Med.Chem.Letts.* **17** 1296.

**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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