

Product Name: TCS JNK 5a

Catalog No.: 2827

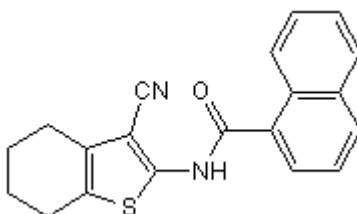
Batch No.: 1

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: C₂₀H₁₆N₂OS
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_f = 0.33 (Dichloromethane:Petroleum ether [40:60])
HPLC: Shows >99.5% purity
¹H 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

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Description:

Selective inhibitor of JNK2 and JNK3 (pIC₅₀ 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 (pIC₅₀ < 5.0).

Physical and Chemical Properties:

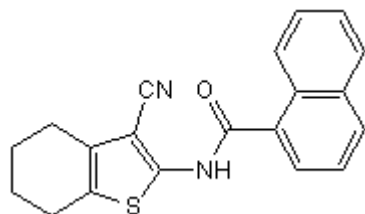
Batch Molecular Formula: C₂₀H₁₆N₂OS

Batch Molecular Weight: 332.42

Physical Appearance: white solid

Minimum Purity: >99%

Batch Molecular Structure:



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.

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.

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