

Product Name: TCS 359

Catalog No.: 2591

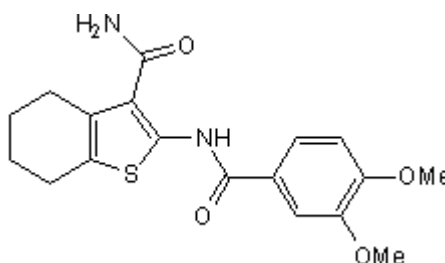
Batch No.: 1

CAS Number: 301305-73-7

IUPAC Name: 2-[(3,4-Dimethoxybenzoyl)amino]-4,5,6,7-benzo[*b*]thiophene-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₀N₂O₄S
Batch Molecular Weight: 360.43
Physical Appearance: White solid
Solubility: DMSO to 30 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.7% purity
¹H NMR: Consistent with structure
¹³C NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Sulfur
Theoretical	59.98	5.59	7.77	8.9
Found	60.28	5.75	7.69	8.81

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

Product Name: TCS 359

Catalog No.: 2591

Batch No.: 1

CAS Number: 301305-73-7

IUPAC Name: 2-[(3,4-Dimethoxybenzoyl)amino]-4,5,6,7-benzo[*b*]thiophene-3-carboxamide

Description:

Potent inhibitor of FLT3 receptor tyrosine kinase ($IC_{50} = 42$ nM) that displays selectivity over a range of other kinases. Exhibits antiproliferative effects on MV4-11 cells, a human acute myelogenous leukemia cell line expressing a constitutively active mutant FLT3 ($IC_{50} = 340$ nM).

Physical and Chemical Properties:

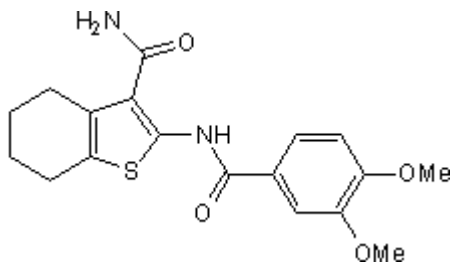
Batch Molecular Formula: $C_{18}H_{20}N_2O_4S$

Batch Molecular Weight: 360.43

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Patch et al (2006) Identification of 2-acylaminothiophene-3-carboxamides as potent inhibitors of FLT3. *Bioorg.Med.Chem.Lett.* **16** 3282. PMID: 16580199.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 30 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.

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