

Product Name: CU CPT 4a

Catalog No.: 4883

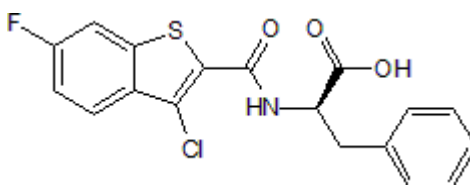
Batch No.: 1

CAS Number: 1279713-77-7

IUPAC Name: *N*-[(3-Chloro-6-fluorobenzo[*b*]thien-2-yl)carbonyl]-*D*-phenylalanine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₃ClFNO₃S
Batch Molecular Weight: 377.82
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 1eq. NaOH to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Chloroform:Methanol [9:1])
HPLC: Shows >99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -22.9 (Concentration = 0.37, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.22	3.47	3.71
Found	57.08	3.45	3.77

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

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Description:

Selective TLR3 antagonist (IC_{50} = 3.44 μ M in RAW 264.7 cells); suppresses downstream signaling pathways mediated by the TLR3/dsRNA complex, inhibiting TNF- α and IL-1 β production in whole cells.

Physical and Chemical Properties:

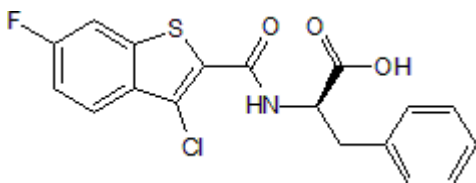
Batch Molecular Formula: C₁₈H₁₃ClFNO₃S

Batch Molecular Weight: 377.82

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. NaOH to 50 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:

Cheng *et al* (2011) Small-molecule inhibitors of the TLR3/dsRNA complex. *J. Am. Chem. Soc.* **133** (11) 3764. PMID: 21355588.

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