

Product Name: CU CPT 4a

Catalog No.: 4883

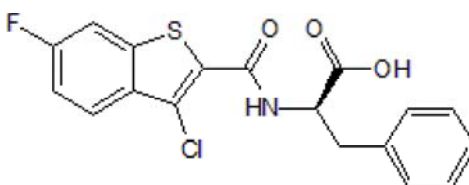
Batch No.: 2

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
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Chloroform:Methanol [9:1])
HPLC: Shows 100% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -20.8 (Concentration = .37, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.22	3.47	3.71
Found	57.19	3.55	3.6

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

Product Name: CU CPT 4a

Catalog No.: 4883

Batch No.: 2

CAS Number: 1279713-77-7

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

Description:

Selective TLR3 inhibitor (IC₅₀ = 3.44 μM in RAW 264.7 cells); suppresses downstream signaling pathways mediated by the TLR3/dsRNA complex, inhibiting TNF-α and IL-1β production in whole cells. Reduces death of crypt cells and improves gastrointestinal syndrome in mice.

Physical and Chemical Properties:

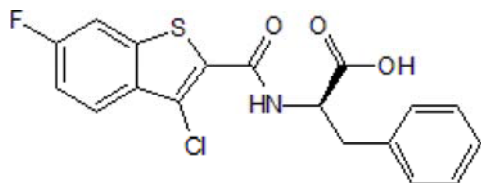
Batch Molecular Formula: C₁₈H₁₃ClFNO₃S

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

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.

Licensing Information:

Sold under license from the University of Colorado

References:

Takemura et al (2014) Blockade of TLR3 protects mice from lethal radiation-induced gastrointestinal syndrome. *Nat.Commun.* **18**. PMID: 24637670 .

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

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