

Certificate of Analysis

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Product Name: Ac-FLTD-CMK

Catalog No.: 7242

Batch No.: 1

CAS Number: 2376255-48-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₇N₄O₈
Batch Molecular Weight: 569.05
Physical Appearance: White lyophilised solid
Counter Ion: Trifluoroacetate
Solubility: Soluble to 1 mg/ml in DMSO
Storage: Store at -20°C
Peptide Sequence: Ac-Phe-Leu-Thr-Asp-CMK

2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys			
Arg				Met			
Asx				Phe	1.00		1.02
Cys				Pro			
Glx				Ser			
Gly				Thr	1.00		0.11
His				Trp			
Ile				Tyr			
Leu	1.00		0.98	Val			

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

Product Name: Ac-FLTD-CMK**Catalog No.:** 7242**Batch No.:** 1

CAS Number: 2376255-48-8

Description:

Ac-FLTD-CMK is a potent and selective inhibitor of caspases 1, 5 and 4 (IC₅₀ values = 46.7 nM, 0.33 μM, 1.49 μM, respectively), and inhibits murine caspase-11 at 10 μM. Ac-FLTD-CMK inhibits cleavage of gasdermin D by caspases, suppresses pyroptosis and reduces IL-1β release in macrophages.

Physical and Chemical Properties:Batch Molecular Formula: C₂₆H₃₇ClN₄O₈

Batch Molecular Weight: 569.05

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Phe-Leu-Thr-Asp-CMK

Storage: Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in DMSO

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: Trifluoroacetate**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).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μm filter to remove potential bacterial contamination whenever possible.

References:

Yang *et al* (2018) Mechanism of gasdermin D recognition by inflammatory caspases and their inhibition by a gasdermin D-derived peptide inhibitor. *Proc.Natl.Acad.Sci.U.S.A.* **115** 6792. PMID: 29891674.

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