

Certificate of Analysis

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Product Name: Ac-YVAD-AFC

Catalog No.: 1572

Batch No.: 1

CAS Number: 219137-85-6

IUPAC Name: *N*-Acetyl-Tyr-Val-Ala-Asp-(7-amino-4-trifluoromethylcoumarin)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₃ H ₃₆ F ₃ N ₅ O ₁₀
Batch Molecular Weight:	719.67
Physical Appearance:	White lyophilised solid
Net Peptide Content:	80%
Solubility:	Soluble to 14.39 mg/ml in DMSO
Storage:	Desiccate at -20°C
Peptide Sequence:	Ac-Tyr-Val-Ala-Asp-AFC

2. ANALYTICAL DATA

HPLC: Shows >95% purity

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

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CAS Number: 219137-85-6

IUPAC Name: *N*-Acetyl-Tyr-Val-Ala-Asp-(7-amino-4-trifluoromethylcoumarin)

Description:

Fluorogenic peptide substrate for caspase-1 (ICE).

Physical and Chemical Properties:

Batch Molecular Formula: C₃₃H₃₆F₃N₅O₁₀

Batch Molecular Weight: 719.67

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Tyr-Val-Ala-Asp-AFC

Storage: Desiccate at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Soluble to 14.39 mg/ml in DMSO

This product is supplied as a lyophilised solid and may be very hard to visualise. 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.

Net Peptide Content: 80% (Remaining weight made up of counterions and residual water).

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:

Jones et al (1998) Fas-mediated apoptosis in mouse hepatocytes involves the processing and activation of caspases. *Hepatology* **27** 1632. PMID: 9620337.

Marks et al (1998) Activation of caspase-3 and apoptosis in cerebellar granule cells. *J.Neurosci.Res.* **52** 334. PMID: 9590441.

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