

Certificate of Analysis

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Product Name: Z-YVAD-FMK

Catalog No.: 2164

Batch No.: 1

IUPAC Name: Benzyloxycarbonyl-Tyr-Val-Ala-Asp(OMe)-fluoromethylketone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₁ H ₃₉ FN ₄ O ₉
Batch Molecular Weight:	630.67
Physical Appearance:	White lyophilised solid
Solubility:	Soluble to 12.61 mg/ml in DMSO
Storage:	Store at -20°C
Peptide Sequence:	Z-Tyr-Val-Ala-Asp(OMe)-FMK

2. ANALYTICAL DATA

HPLC:	Shows >95% purity
Mass Spectrum:	Consistent with structure

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

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Catalog No.: 2164

Batch No.: 1

IUPAC Name: Benzyloxycarbonyl-Tyr-Val-Ala-Asp(OMe)-fluoromethylketone

Description:

Inhibitor of caspase-1 (ICE); inhibits apoptosis.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₁H₃₉FN₄O₉

Batch Molecular Weight: 630.67

Physical Appearance: White lyophilised solid

Peptide Sequence:

Z-Tyr-Val-Ala-Asp(OMe)-FMK

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 12.61 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.

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 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:

Avivi-Green et al (2002) Different molecular events account for butyrate-induced apoptosis in two human colon cancer cell lines. *J.Nutr.* **132** 1812. PMID: 12097652.

Ming et al (2002) Caspase-1 expression in multiple sclerosis plaques and cultured glial cells. *J.Neurol.Sci.* **197** 9. PMID: 11997061.

Winter et al (2004) Caspase-1 enhances the apoptotic response of prostate cancer cells to ionizing radiation. *Anticancer Res.* **24** 1377. PMID: 15274298.

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