

Certificate of Analysis

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Product Name: Z-VEID-FMK

Catalog No.: 2169

Batch No.: 1

IUPAC Name: Benzyloxycarbonyl-Val-Glu(OMe)-Ile-Asp(OMe)-fluoromethylketone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₁ H ₄₅ FN ₄ O ₁₀
Batch Molecular Weight:	652.72
Physical Appearance:	White lyophilised solid
Solubility:	Soluble to 13.05 mg/ml in DMSO
Storage:	Store at -20°C
Peptide Sequence:	Z-Val-Glu(OMe)-Ile-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

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: Z-VEID-FMK

Catalog No.: 2169

Batch No.: 1

IUPAC Name: Benzyloxycarbonyl-Val-Glu(OMe)-Ile-Asp(OMe)-fluoromethylketone

Description:

Irreversible caspase-6 inhibitor. Inhibits nuclear protein cleavage in Fas antibody-treated HeLa cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₁H₄₅FN₄O₁₀

Batch Molecular Weight: 652.72

Physical Appearance: White lyophilised solid

Peptide Sequence:

Z-Val-Glu(OMe)-Ile-Asp(OMe)-FMK

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 13.05 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.

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:

Abdo et al (2003) Role of tumor necrosis factor-alpha and the modulating effect of the caspases in rat corpus luteum apoptosis. *Biol.Reprod.* **68** 1241. PMID: 12606464.

Nyormoi et al (2003) Sequence-based discovery of a synthetic peptide inhibitor of caspase 6. *Apoptosis* **8** 371. PMID: 12815280.

Taimen and Kallajoki (2003) NuMA and nuclear lamins behave differently in Fas-mediated apoptosis. *J.Cell Sci.* **116** 571. PMID: 12508117.

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