Print Date: Jun 27th 2022

Certificate of Analysis

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Product Name: **Z-DEVD-FMK** **Catalog No.: 2166** **Batch No.: 7**

CAS Number: 210344-95-9

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{30}H_{41}FN_4O_{12}$
Batch Molecular Weight:	668.67
Physical Appearance:	White lyophilised solid
Net Peptide Content:	100%
Solubility:	Soluble to 13.37 mg/ml in DMSO
Storage:	Store at -20°C
Peptide Sequence:	Z-Asp(OMe)-Glu(OMe)-Val-Asp(OMe)-FMK

2. ANALYTICAL DATA

Mass Spectrum:	Consistent with structure

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CAS Number: 210344-95-9

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

Description:

Z-DEVD-FMK is a cell-permeable, irreversible inhibitor of caspase-3/CPP32; inhibits tumor cell apoptosis. Neuroprotective in rat hippocampus following seizures in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{30}H_{41}FN_4O_{12}$

Batch Molecular Weight: 668.67

Physical Appearance: White lyophilised solid

Peptide Sequence:

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

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 13.37 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.

Net Peptide Content: 100% (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 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:

Henshall *et al* (2000) Involvement of caspase-3-like protease in the mechanism of cell death following focally evoked limbic seizures. J.Neurochem. ***74*** 1215. PMID: 10693954.

Kugawa *et al* (2000) Apoptosis of NG108-15 cells induced by Bupren. hydrochloride occurs via the caspase-3 pathway. Biol.Pharm.Bull. ***23*** 930. PMID: 10963298.

Brocksted *et al* (1998) Identification of apoptosis-associated proteins in a human Burkitt lymphoma cell line. J.Biol.Chem. ***273*** 28057. PMID: 9774422.

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