Certificate of Analysis

Product Name: **Z-WEHD-FMK** **Catalog No.: 2167** **Batch No.: 1**

IUPAC Name: Benzyloxycarbonyl-Trp-Glu(OMe)-His-Asp(OMe)-fluoromethylketone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{37}H_{42}FN_7O_{11}$
Batch Molecular Weight:	763.78
Physical Appearance:	White lyophilised solid
Solubility:	Soluble to 15.28 mg/ml in DMSO
Storage:	Store at -20°C
Peptide Sequence:	Z-Trp-Glu(OMe)-His-Asp(OMe)-FMK

2. ANALYTICAL DATA

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

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Product Name: **Z-WEHD-FMK** **Catalog No.: 2167** **Batch No.: 1**

IUPAC Name: Benzyloxycarbonyl-Trp-Glu(OMe)-His-Asp(OMe)-fluoromethylketone

Description:

Caspase-5 inhibitor. Inhibits ECyd-induced rRNA fragmentation in mouse mammary tumor and human fibrosarcoma cells.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{37}H_{42}FN_7O_{11}$

Batch Molecular Weight: 763.78

Physical Appearance: White lyophilised solid

Peptide Sequence:

Z-Trp-Glu(OMe)-His-Asp(OMe)-FMK

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 15.28 mg/ml in DMSO

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:

Naito *et al* (2002) Anticancer mechanisms of 1-(3-C-ethynyl-beta-D-ribo-pentofuranosyl)cytosine (ECyd, TAS-106). Nucl.Acids Res.Suppl. ***2*** 241.