

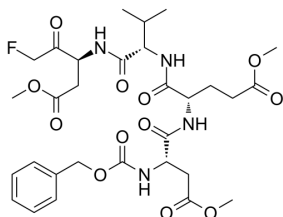
## Certificate of Analysis

**Product Name:** Z-DEVD-FMK  
**Cat. No.:** HY-12466  
**CAS No.:** 210344-95-9  
**Batch No.:** 13764  
**Chemical Name:** L-Valinamide, N-[(phenylmethoxy)carbonyl]-L- $\alpha$ -aspartyl-L- $\alpha$ -glutamyl-N-[(1S)-3-fluoro-1-(2-methoxy-2-oxoethyl)-2-oxopropyl]-, 1,2-dimethyl ester

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>30</sub>H<sub>41</sub>FN<sub>4</sub>O<sub>12</sub>  
**Molecular Weight:** 668.66  
**Storage:**  
Powder      -20°C      3 years  
                  4°C        2 years  
In solvent    -80°C      6 months  
                  -20°C      1 month

**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**LCMS:** Consistent with structure  
**Purity (NMR):** >98.0%  
**Conclusion:** The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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