



## CERTIFICATE of ANALYSIS

<b>PRODUCT:</b>	<b>Z-VAD-FMK</b> [Caspase Family Inhibitor (Fluoromethylketone); Z-Val-Ala-DL-Asp-FMK]; C <sub>21</sub> H <sub>28</sub> FN <sub>3</sub> O <sub>7</sub> , M.W. 453.5	
<b>PRODUCT NUMBER:</b>	C-1077	
<b>LOT NUMBER:</b>	B1267A	
<b>APPEARANCE:</b>	Yellowish lyophilisate	
<b>SOLUBILITY:</b>	Soluble in DMSO or acetonitrile (10 mg/ml)	
<b>PURITY (HPLC):</b>	<u>SPECIFICATIONS:</u> ≥92.0%	<u>RESULTS:</u> 95.0% (TFA); 94.6% (NaClO <sub>4</sub> )
<b>IDENTITY:</b> (Determined by ESI-MS)	Identical to standard reference	Conforms
<b>ELEMENTAL ANALYSIS:</b>	N: 9.27%	N: 8.82%
<b>DESCRIPTION:</b>	Irreversible, cell permeable broad-spectrum caspase inhibitor.	
<b>STORAGE &amp; HANDLING:</b>	Store cool and dry at -20°C. Keep sealed after removing from the freezer until it reaches room temperature. Dissolve only the amount needed at one time because of the possibility of decomposition in solution. After reconstitution, prepare aliquots and store at -20°C.	

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DD