



CERTIFICATE of ANALYSIS

PRODUCT: **Caspase-1 Inhibitor VI
(Fluoromethylketone)**
[Z-VAD-FMK; Z-Val-Ala-DL-Asp-FMK]
C₂₁H₂₈FN₃O₇, M.W. 453.5

PRODUCT NUMBER: C-1077

LOT NUMBER: B1267

APPEARANCE: Pale yellowish powder.

ELEMENTAL ANALYSIS N: 8.82%

PURITY (HPLC): 95%

IDENTITY: Identical to standard reference (determined by MS).

SOLUBILITY: Soluble in DMSO or acetonitrile (10 mg/ml).

APPLICATION: Can be used as a broad spectrum caspase inhibitor.

Prepare a 10mM stock solution of the caspase inhibitor in high quality DMSO. Add 2µl of this stock solution to 1ml of culture medium containing cells to give 20µM final concentration. Effective final concentrations are estimated to be 5-20µM. If a particular caspase inhibitor is applied at higher concentrations specificity for an individual caspase or even for the caspase family (> 100µM) might be compromised.

DMSO concentration above 0.2% may cause cellular toxicity thus masking the effect of the caspase inhibitor.

For *in vivo* experiments extending for 12 to 48 hours, fresh inhibitor may have to be added (injected) due to inactivation by reaction with cysteine protease.

STORAGE & HANDLING: Keep cool and dry at -20°C . Keep sealed after removing from freezer until its temperature equilibrates with room temperature. Dissolve only as much as needed at one time because of the possibility of decomposition in solution.