Technical Data Sheet

Z-VAD-FMK, General Caspase Inhibitor

Product Information
Material Number: 550377
Size: 1.0 mg
Storage Buffer: Lyophilized in dimethyl sulfoxide (DMSO).

Description
Members of the caspase family play key roles in inflammation and mammalian apoptosis. Z-VAD-FMK is a cell permeable general caspase inhibitor that irreversibly binds to the catalytic site of caspase proteases and inhibits apoptosis. The peptide is O-methylated in the P1 position on aspartic acid providing enhanced stability and increased cell permeability. Z-VAD-FMK has a molecular weight of 467 Daltons.

Preparation and Storage
Avoid multiple freeze-thaws of product.
Store the lyophilized Z-VAD-FMK inhibitor at -20°C. Reconstitute the Z-VAD-FMK inhibitor in DMSO before use. The reconstituted Z-VAD-FMK inhibitor may be stored in small aliquots at -20°C.

Application Notes
Application
| Flow cytometry | Routinely Tested |

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Recommended Assay Procedure:
The Z-VAD-FMK inhibitor is designed to be used in both \textit{in vivo} and \textit{in vitro} cell based assays to measure the inhibition of apoptosis. Reconstitute 1.0 mg of the Z-VAD-FMK inhibitor in DMSO. A 10 mM stock solution may be made by dissolving 1.0 mg of Z-VAD-FMK in 214 µl DMSO. The final concentration of inhibitor may vary between experimental systems and investigators are encouraged to titrate the inhibitor for optimal performance. As a precautionary note, do not exceed a final DMSO concentration of 0.2% as higher levels may cause cellular toxicity and mask the effects of the caspase inhibitor.

\textbf{Suggested Companion Products}

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>559763</td>
<td>PE Annexin V Apoptosis Detection Kit I</td>
<td>100 tests</td>
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<tr>
<td>550411</td>
<td>Z-FA-FMK, Negative Control for Caspase Inhibitors</td>
<td>1.0 mg</td>
<td>(none)</td>
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</tbody>
</table>

\textbf{Product Notices}

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.


\textbf{References}

Gregoli PA, Bondurant MC. Function of caspases in regulating apoptosis caused by erythropoietin deprivation in erythroid progenitors. \textit{J Cell Physiol.} 1999; 178(2):133-143. (Biology)
