

#60332 Store at -20C**Z-VAD(OMe)-FMK**

1 mg

**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.**Background**

The synthetic peptide Z-VAD(OMe)-FMK is a cell permeable, irreversible pan-caspase inhibitor that displays non-cytotoxic effects (1-4). Z-VAD(OMe)-FMK prevents caspase-3 from adopting its active form and thereby blocks apoptosis (5). Research studies show that Z-VAD(OMe)-FMK also inhibits other enzymes, including cathepsin B, PNGase, and picornaviral 2A proteinases (6-8). Additional studies demonstrate that Z-VAD(OMe)-FMK can inhibit mitogen-induced T cell proliferation (2,9,10).

Molecular FormulaC₂₂H₃₀FN₃O₇**Molecular Weight**

467.5 g/mol

Purity

>95%

CAS

187389-52-2

Solubility

Soluble in DMSO at 5mg/ml.

Storage

Store lyophilized or in solution at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.

Directions for Use

Z-VAD(OMe)-FMK is supplied as a lyophilized powder. For a 10 mM stock, reconstitute the 1 mg of powder in 213.9 µl of DMSO. Working concentrations and length of treatment can vary depending on the desired effect, but it is typically used as a pre-treatment at 5-100 µM for 1 hr.

Background References

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Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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