Z-FA-FMK
Item No. 14462

CAS Registry No.: 197855-65-5
Formal Name: N-[(1S)-2-[(3-fluoro-1-methyl-2-oxopropyl)amino]-2-oso-1-(phenylmethyl)ethyl]carbamic acid, phenylmethyl ester
Synonym: Z-Phe-Ala-Fluoromethyl Ketone
MF: C_{21}H_{23}FN_{2}O_{4}
FW: 386.4
Purity: >98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that Z-FA-FMK be stored as supplied at -20°C. It should be stable for at least two years.

Z-FA-FMK is supplied as a crystalline solid. A stock solution may be made by dissolving the Z-FA-FMK in the solvent of choice. Z-FA-FMK is soluble in organic solvents such as DMSO and dimethyl formamide which should be purged with an inert gas. The solubility of Z-FA-FMK in these solvents is approximately 5 mg/ml.

Z-FA-FMK is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Z-FA-FMK is an irreversible inhibitor of cysteine proteases, including cathepsins B, L, and S, cruzain, and papain. It also inhibits effector caspases-2, -3, -6, and -7 (IC_{50} = 6-32 µM) without affecting the initiator caspases-8 and -10. Z-FA-FMK also modulates infection by certain bacteria, parasites, and viruses. It can be used both in cells and in vivo.

References

Related Products
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