PRODUCT INFORMATION



Z-VAD(OH)-FMK

Item No. 14467

CAS Registry No.: Formal Name:	161401-82-7 N-[(phenylmethoxy)carbonyl]-L-valyl- N-[(1S)-1-(carboxymethyl)-3-fluoro-2-	F	
	oxopropyl]-L-alaninamide		
Synonym:	Z-Val-Ala-Asp-(OH)-Fluoromethyl Ketone		
MF:	C ₂₁ H ₂₈ FN ₃ O ₇		
FW:	453.5		н
Purity:	≥95%		
Supplied as:	A crystalline solid		
Storage:	-20°C	\sim	
Stability:	≥4 years		
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.			

Laboratory Procedures

Z-VAD(OH)-FMK is supplied as a crystalline solid. A stock solution may be made by dissolving the Z-VAD(OH)-FMK in the solvent of choice, which should be purged with an inert gas. Z-VAD(OH)-FMK is soluble in the organic solvent DMSO at a concentration of approximately 5 mg/ml.

Description

Z-VAD(OH)-FMK is an irreversible tripeptide inhibitor of all caspases.¹⁻³ This non-methylated form is useful in studies involving recombinant, isolated, or purified enzymes. Unlike the methylated form, Z-VAD(OMe)-FMK (Item No. 14463), this compound does not require pretreatment with esterases prior to in vitro use.

References

- 1. Cain, K., Inayat-Hussain, S.H., Couet, C., et al. A cleavage-site-directed inhibitor of interleukin-1βconverting enzyme-like proteases inhibits apoptosis in primary cultures of rat hepatocytes. Biochem. J. 314(Pt 1), 27-32 (1996).
- 2. Jacobson, M.D., Weil, M., and Raff, M.C. Role of Ced-3/ICE-family proteases in staurosporine-induced programmed cell death. J. Cell Biol. 133(5), 1041-1051 (1996).
- 3. Garcia-Calvo, M., Peterson, E.P., Leiting, B., et al. Inhibition of human caspases by peptide-based and macromolecular inhibitors. J. Biol. Chem. 273(49), 32608-32613 (1998).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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