

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



DATASHEET

Z-VAD-(OMe)-FMK

Product overview

Name	Z-VAD-(OMe)-FMK
Cat No	HB1319
Biological action	Inhibitor
Purity	>95%
Description	Irreversible, cell permeable, broad spectrum caspase inhibitor.

Images



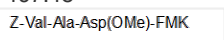
Biological Data

Biological description	Irreversible, cell permeable, broad spectrum caspase inhibitor. Also inhibits PARP-1 cleavage and Fas-induced apoptosis. Hydrolysed by endogenous esterases into the biologically active form Z-VAD-FMK.
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Solubility & Handling

Storage instructions	-20°C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Benzyloxycarbonyl-Val-Ala-Asp(OMe)-fluoromethylketone
Molecular Weight	467.48
Chemical structure	
Molecular Formula	C ₂₂ H ₃₀ FN ₃ O ₇
CAS Number	187389-52-2
PubChem identifier	5497174
SMILES	<chem>C[C@@H](C(=O)N[C@@H](CC(=O)OC)C(=O)CF)NC(=O)[C@H](C(C)C)NC(=O)OCC1=CC=CC=C1</chem>
InChi	InChI=1S/C22H30FN3O7/c1-13(2)19(26-22(31)33-12-15-8-6-5-7-9-15)21(30)24-14(3)20(29)25-16(17(27)11-23)10-18(28)32-4/h5-9,13-14,16,19H,10-12H2,1-4H3,(H,24,30)(H,25,29)(H,26,31)/t14-,16-,19-/m0/s1
InChiKey	MIFGOLAMNLSLGH-QOKNQOGYSA-N

Chemical name	Benzyloxycarbonyl-Val-Ala-Asp(OMe)-fluoromethylketone
MDL number	MFCD01074990
Appearance	White solid

References

Amyloid precursor protein binding protein Fe65 is cleaved by caspases during DNA damage-induced apoptosis.

Saeki K *et al* (2011) Biol Pharm Bull 34(2)

PubMedID [21415543](#)

Benzyloxycarbonyl-Val-Ala-Asp (OMe) fluoromethylketone (Z-VAD.FMK) inhibits apoptosis by blocking the processing of CPP32.

Slee EA *et al* (1996) Biochem J 315 (Pt 1)

PubMedID [8670109](#)

A specific inhibitor of apoptosis decreases tissue injury after intestinal ischemia-reperfusion in mice.

Farber A *et al* (1999) J Vasc Surg 30(4)

PubMedID [10514215](#)
