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## DATASHEET

### Z-VAD-FMK

#### Product overview

<b>Name</b>	Z-VAD-FMK
<b>Cat No</b>	HB1285
<b>Alternative names</b>	ZVAD-FMK; Z-VAD.FMK
<b>Biological action</b>	Inhibitor
<b>Description</b>	Broad spectrum caspase inhibitor

#### Images



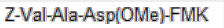
#### Biological Data

<b>Biological description</b>	Broad spectrum caspase inhibitor. Blocks apoptosis and activation of caspases during Fas-L induced apoptosis. Also Inhibits T-cell proliferation displaying immunosuppressive properties.
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#### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (20 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

#### Chemical Data

<b>Chemical name</b>	Benzyloxycarbonyl-Val-Ala-Asp(OMe)-fluoromethylketone
<b>Molecular Weight</b>	467.49
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>30</sub> FN <sub>3</sub> O <sub>7</sub>
<b>CAS Number</b>	187389-52-2
<b>PubChem identifier</b>	5497174
<b>SMILES</b>	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
<b>InChi</b>	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

## References

### **Radiation-induced cytochrome c release and the neuroprotective effects of the pan-caspase inhibitor z-VAD-fmk in the hypoglossal nucleus.**

Li J *et al* (2014) *Exp Ther Med* 7(2)

**PubMedID** [24396410](#)

### **Suppression of human T cell proliferation by the caspase inhibitors, z-VAD-FMK and z-IETD-FMK is independent of their caspase inhibition properties.**

Lawrence CP *et al* (2012) *Toxicol Appl Pharmacol* 265(1)

**PubMedID** [22982538](#)

### **Inhibition of human caspases by peptide-based and macromolecular inhibitors.**

Garcia-Calvo M *et al* (1998) *J Biol Chem* 273(49)

**PubMedID** [9829999](#)

### **Correlation of tumor necrosis factor alpha (TNF alpha) with high Caspase 3-like activity in myelodysplastic syndromes.**

Mundle SD *et al* (1999) *Cancer Lett* 140(1-2)

**PubMedID** [10403560](#)

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