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DATASHEET

Z-VAD-FMK

Product overview

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

Images

Biological Data

Biological description	Broad spectrum caspase inhibitor. Blocks apoptosis and activation of caspases during Fas-L induced apoptosis. Also Inhibits T-cell proliferation displaying immunosuppressive properties.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (20 mM)
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	467.49
Chemical structure	Z-Val-Ala-Asp(OMe)-FMK
Molecular Formula	$C_{22}H_{30}FN_3O_7$
CAS Number	187389-52-2
PubChem identifier	5497174
SMILES	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
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

Chemical name	Benzyloxycarbonyl-Val-Ala-Asp(OMe)-fluoromethylketone
InChiKey	MIFGOLAMNLSLGH-QOKNQOGYSA-N
MDL number	MFCD01074990

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)
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Garcia-Calvo M *et al* (1998) J Biol Chem 273(49)
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Correlation of tumor necrosis factor alpha (TNF alpha) with high Caspase 3-like activity in myelodysplastic syndromes.

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