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DATASHEET

Z-VDVAD-FMK

Product overview

Name	Z-VDVAD-FMK
Cat No	HB1286
Biological action	Inhibitor
Description	Irreversible caspase 2 inhibitor

Biological Data

Biological description	Irreversible caspase 2 inhibitor. Significantly reduces cell detachment, caspase-2 and -3 activity, DNA ladders, and proteolytic cleavage of PARP. Displays inhibitory apoptotic actions.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (13.791mg/ml)
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-Asp(OMe)-Val-Ala-Asp(OMe)-fluoromethylketone
Molecular Weight	695.74
Chemical structure	
Molecular Formula	C ₃₂ H ₄₆ FN ₅ O ₁₁
PubChem identifier	0
SMILES	[H]N([C@@H](C(C)C)C(=O)N[C@@H](CC(=O)OC)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](C)C(=O)N[C@@H](CC(=O)OC)C(=O)CF)C(=O)OCC1=CC=CC=C1

References

Doxorubicin treatment activates a Z-VAD-sensitive caspase, which causes deltapسيم loss, caspase-9 activity, and apoptosis in Jurkat cells.

Gamen S *et al* (2000) Exp Cell Res 258(1)
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Caspase inhibitors attenuate oxyhemoglobin-induced apoptosis in endothelial cells.

Meguro T *et al* (2001) Stroke 32(2)
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Upstream control of apoptosis by caspase-2 in serum-deprived primary neurons.

Chauvier D *et al* (2005) Apoptosis 10(6)
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