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DATASHEET

Z-DEVD-FMK

Product overview

Name	Z-DEVD-FMK
Cat No	HB1282
Biological action	Inhibitor
Purity	>95%
Description	Irreversible, selective caspase 3 inhibitor

Biological Data

Biological description	Irreversible and selective caspase 3 inhibitor ($IC_{50} = 0.13 \mu M$). Cell permeable. Exhibits no activity at cathepsin B and cathepsin L. Displays neuroprotective properties and inhibits apoptosis.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (13.37mg/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-Asp(OMe)-Glu(OMe)-Val-Asp(OMe)-fluoromethylketone
Molecular Weight	668.67
Chemical structure	
Molecular Formula	$C_{30}H_{41}FN_4O_{12}$
CAS Number	210344-95-9
PubChem identifier	16760394
SMILES	<chem>[H]N([C@@H](CC(=O)OC)C(=O)N[C@@H](CCC(=O)OC)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CC(=O)OC)C(=O)CF)C(=O)OCC1=CC=CC=C1</chem>
InChiKey	GBJVAVGBSGRRKN-JYEBCORRSA-N

References

Apoptosis of NG108-15 cells induced by buprenorphine hydrochloride occurs via the caspase-3 pathway.

Kugawa F *et al* (2000) Biol Pharm Bull 23(8)

PubMedID [10963298](#)

Involvement of caspase-3-like protease in the mechanism of cell death following focally evoked limbic seizures.

Henshall DC *et al* (2000) J Neurochem 74(3)

PubMedID [10693954](#)

Identification of apoptosis-associated proteins in a human Burkitt lymphoma cell line. Cleavage of heterogeneous nuclear ribonucleoprotein A1 by caspase 3.

Brockstedt E *et al* (1998) J Biol Chem 273(43)

PubMedID

9774422

Development of near-infrared fluorophore (NIRF)-labeled activity-based probes for in vivo imaging of legumain.

Lee J *et al* (2010) ACS Chem Biol 5(2)

PubMedID

20017516
