

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

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

customercare-usa@hellobio.com



## DATASHEET

Z-VDVAD-FMK

### Product overview

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

### Biological Data

<b>Biological description</b>	Irreversible caspase 2 inhibitor. Significantly reduces cell detachment, caspase-2 and -3 activity, DNA ladders, and proteolytic cleavage of PARP. Displays inhibitory apoptotic actions.
-------------------------------	---

### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (13.791mg/ml)
<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-Asp(OMe)-Val-Ala-Asp(OMe)-fluoromethylketone
<b>Molecular Weight</b>	695.74
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>32</sub> H <sub>46</sub> FN <sub>5</sub> O <sub>11</sub>
<b>PubChem identifier</b>	0
<b>SMILES</b>	[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)  
**PubMedID** [10912804](#)

**Caspase inhibitors attenuate oxyhemoglobin-induced apoptosis in endothelial cells.**

Meguro T *et al* (2001) Stroke 32(2)  
**PubMedID** [11157197](#)

**Upstream control of apoptosis by caspase-2 in serum-deprived primary neurons.**

Chauvier D *et al* (2005) Apoptosis 10(6)  
**PubMedID** [16215683](#)

