



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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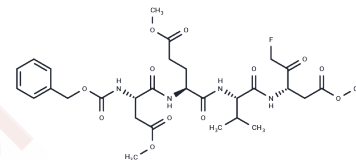
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## Z-DEVD-FMK

## Chemical Properties

CAS No. :	210344-95-9
Formula:	C30H41FN4O12
Molecular Weight:	668.66
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Z-DEVD-FMK (Caspase-3 Inhibitor) is a selective, irreversible Caspase-3 inhibitor, and also exhibits effective inhibition activity on caspase-6, caspase-7, caspase-8, and caspase-10.
Targets(IC50)	Caspase
In vivo	Z-DEVD-FMK, before and after injury, markedly reduces post-traumatic apoptosis, and significantly improved neurological recovery. [2]
Kinase Assay	Caspase activity assay : Caspase-3 and caspase-9 activities are measured using fluorescent-based substrate. After treatment, the cells are resuspended in lysis buffer (50 mM Tris HCl, 1 mM EDTA, and 10 mM EGTA) containing 10 mM digitonin for 20 min at 37°C. Supernatants are treated with either of the fluorogenic substrates Ac-DEVD-AFC for caspase-3 or Ac-LEHD-AFC for caspase-9 for 1 h at 37°C and fluorescence is measured at excitation at 400 nm and emission at 505 nm using a Gemini XS fluorescence plate reader
Cell Research	N27 cells are incubated with 100 μM 6-OHDA for 24 h or 300 μM MPP+ for 36 h in the presence or absence of 50 μM Z-DEVD-FMK and cell death is determined by MTT (3-(4,5-dimethylthiazol-3-yl)-2,5-diphenyl tetrazolium bromide) assay, which is widely used to assess cell viability. After treatment, the cells are incubated in serum-free medium containing 0.25 mg/ml MTT for 3 h at 37°C. Formation of formazan from tetrazolium is measured at 570 nm with a reference wavelength at 630 nm using a SpectraMax microplate reader.(Only for Reference)

## Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (74.78 mM), Ethanol: < 1 mg/mL (insoluble or slightly soluble), &lt; 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.4955 mL	7.4776 mL	14.9553 mL
5 mM	0.2991 mL	1.4955 mL	2.9911 mL
10 mM	0.1496 mL	0.7478 mL	1.4955 mL
50 mM	0.0299 mL	0.1496 mL	0.2991 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Suzuki N, et al. Farnesyltransferase inhibitors induce cytochrome c release and caspase 3 activation preferentially in transformed cells. Proc Natl Acad Sci U S A. 1998 Dec 22;95(26):15356-61.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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