



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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

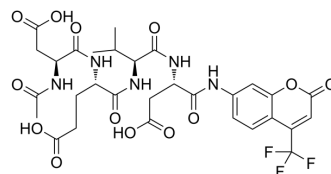
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Ac-DEVD-AFC

Cat. No.:	HY-P1005
CAS No.:	201608-14-2
Molecular Formula:	C ₃₀ H ₃₄ F ₃ N ₅ O ₁₃
Molecular Weight:	730
Sequence:	N-Acetyl-Asp-Glu-Val-Asp-7-amido-4-trifluoroMethylcoumarin
Sequence Shortening:	Ac-DEVD-7-amido-4-trifluoroMethylcoumarin
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Sealed storage, away from moisture and light



Powder -80°C 2 years
-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (68.49 mM)
H₂O : < 0.1 mg/mL (insoluble)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3699 mL	6.8493 mL	13.6986 mL
	5 mM	0.2740 mL	1.3699 mL	2.7397 mL
	10 mM	0.1370 mL	0.6849 mL	1.3699 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (3.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (3.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (3.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ac-DEVD-AFC is a fluorogenic substrate (λ_{ex} =400 nm, λ_{em} =530 nm).

In Vitro

After incubation with Ac-DEVD-AFC for 1 hour, significant increase of caspase-3 activity is observed at 4 hour compare with control. There are no significant increases of caspase-3 activity in Photofrin and LPLI group. The cleavage of Ac-DEVD-AFC in response to caspase-3 activation is remarkably inhibited by shRNA-BimL transfection^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay ^[1]

For the detection of caspase-3 activity, PBS washes cell pellets (derive from either the medium or the adherent cells) which are suspended in extract buffer [25 mM HEPES (pH7.4), 0.1% TritonX-100, 10% glycerol, 5 mM DTT, 1mM phenylmethylsulfonyl fluoride, 10 mg/mL pepstatin, and 10 mg/mL Leupeptin] and vortexed vigorously. 20µl of extract (corresponding to 10% of the sample) are incubated with the caspase-3 fluorogenic substrates Ac-DEVD-AFC at 100 µM final concentration at room temperature, and caspase-3 activity is measured continuously by monitoring the release of fluorogenic AFC at 37°C^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Rep. 2023 Apr 18;42(5):112414.
- ACS Pharmacol Transl Sci. 2021 Jun 9.
- J Ethnopharmacol. 2020 Nov 15;262:113213.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Wang X, et al. Involvement of Bim in Photofrin-mediated photodynamically induced apoptosis. Cell Physiol Biochem. 2015;35(4):1527-36.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA