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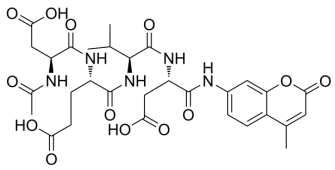
Ac-DEVD-AMC

Cat. No.:	HY-P1003
CAS No.:	169332-61-0
Molecular Formula:	$C_{30}H_{37}N_5O_{13}$
Molecular Weight:	676
Sequence:	N-Acetyl-Asp-Glu-Val-Asp-7-amido-4-Methylcoumarin
Sequence Shortening:	Ac-DEVD-7-amido-4-Methylcoumarin
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	H_2O : < 0.1 mg/mL (insoluble)
In Vivo	1. Add each solvent one by one: PBS Solubility: 3.33 mg/mL (4.93 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	Ac-DEVD-AMC is a fluorescent substrate of caspase-3/caspase-7. When treating Ac-DEVD-AMC with cell lysate, Ac-DEVD-AMC releases amino-4-methylcoumarin (AMC) for fluorescence detection, with an excitation wavelength of 380 nm and an emission wavelength of 460 nm[1][2][3].
In Vitro	Ac-DEVD-AMC fluorescence labeling[2] (1) Preparation of caspase buffer: 0.5% Igepal CA-630, 10 mM HEPES (pH 7.4), 2 mM EDTA, 0.5 mM phenylmethylsulphonyl fluoride (PMSF) and 5 μg/mL leupeptin. (2) PC12 cells were treated with 50 μM 6-OHDA for 20 h. (3) Collect cells by centrifugation at 250 g for 5 min, wash with PBS, and then centrifuge at 250 g for 5 min. (4) Resuspension cells with caspase buffer at a ratio of 2 μL/10^5 cells and lyse at 4°C for 20 min. (5) Collect the lysate by centrifugation at 7200 g, 4°C and 10 min. (6) Incubate 20 μL lysate with 100 μM Ac-DEVD-AMC at 30°C for 10 min. (7) Measure caspase activity using a fluorescence spectrophotometer at an excitation wavelength of 380 nm and an emission wavelength of 460 nm. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nucleic Acids Res. 2019 Oct 10;47(18):9619-9636.
- Cell Death Dis. 2021 Sep 23;12(10):864.
- J Agric Food Chem. 2019 Jul 3;67(26):7378-7389.
- PLoS One. 2019 Dec 30;14(12):e0227278.

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REFERENCES

[1]. Nobel CS, et al. Disulfiram is a potent inhibitor of proteases of the caspase family. Chem Res Toxicol. 1997 Dec;10(12):1319-24.

[2]. Ochu EE, et al. Caspases mediate 6-hydroxydopamine-induced apoptosis but not necrosis in PC12 cells. J Neurochem. 1998 Jun;70(6):2637-40.

[3]. Yakovlev AA, Gorokhovatsky AY, Onufriev MV, Beletsky IP, Gulyaeva NV. Brain cathepsin B cleaves a caspase substrate. Biochemistry (Mosc). 2008 Mar;73(3):332-6.

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