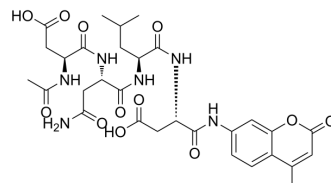


Ac-DNLD-AMC

Cat. No.:	HY-P3110
CAS No.:	958001-92-8
Molecular Formula:	C ₃₀ H ₃₈ N ₆ O ₁₂
Molecular Weight:	674.66
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ac-WLA-AMC is a fluorogenic substrate of caspase-3. Ac-WLA-AMC is cleaved to release the fluorescent moiety 7-amino-4-methylcoumarin (AMC), which can be used to quantify the β5c subunit activity ^{[1][2]} .
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Labeling of caspase: 1. Cells were harvested and washed with PBS. 2. After centrifugation, they were resuspended in PBS at a concentration of 2×10^6 cells/100 μl. 3. 25 μl of the suspension was added to a 96-well plate and mixed with the appropriate peptide substrate dissolved in a standard reaction buffer (100 mM HEPES, 10 % sucrose, 5 mM DTT, 0.001 % NP-40, and 0.1 % CHAPS, pH 7.2). 4. Ac-DNLD-AMC was monitored by AMC liberation in a VarioScan Flash multimode detector (Thermo Scientific) using 380-nm excitation and 460-nm emission wavelengths. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kulikov AV, et al. Targeting mitochondria by α-tocopheryl succinate overcomes hypoxia-mediated tumor cell resistance to treatment. *Cell Mol Life Sci.* 2014 Jun;71(12):2325-33.
- [2]. Yoshida K, et al. Caspase-independent cell death without generation of reactive oxygen species in irradiated MOLT-4 human leukemia cells. *Cell Immunol.* 2009;255(1-2):61-8.

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

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