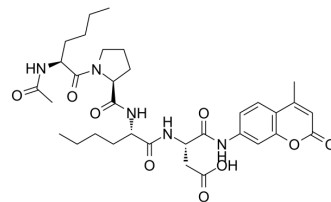


## Ac-Nle-Pro-Nle-Asp-AMC

Cat. No.:	HY-P2016
CAS No.:	355140-49-7
Molecular Formula:	C <sub>33</sub> H <sub>45</sub> N <sub>5</sub> O <sub>9</sub>
Molecular Weight:	655.74
Target:	Proteasome
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

#### Description

Ac-Nle-Pro-Nle-Asp-AMC is a specific substrate for 26S proteasome. Ac-Nle-Pro-Nle-Asp-AMC can be used for the 26S proteasome caspase-like activity analysis<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Dunlop RA, et al. The impact of specific oxidized amino acids on protein turnover in J774 cells. *Biochem J.* 2008 Feb 15;410(1):131-40.
- [2]. Kirk-Ballard H, et al. An extract of *Artemisia dracunculus* L. inhibits ubiquitin-proteasome activity and preserves skeletal muscle mass in a murine model of diabetes. *PLoS One.* 2013;8(2):e57112.
- [3]. Pakavathkumar P, et al. Methylene Blue Inhibits Caspases by Oxidation of the Catalytic Cysteine. *Sci Rep.* 2015 Sep 24;5:13730.

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

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