Ac-Nle-Pro-Nle-Asp-AMC

Cat. No.: HY-P2016

CAS No.: 355140-49-7

Molecular Formula: $C_{33}H_{45}N_5O_9$

Molecular Weight: 655.74

Target: Proteasome

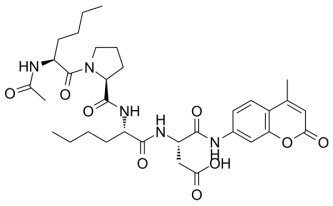
Pathway: Metabolic Enzyme/Protease

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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (152.50 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.5250 mL	7.6250 mL	15.2499 mL
5 mM	0.3050 mL	1.5250 mL	3.0500 mL
10 mM	0.1525 mL	0.7625 mL	1.5250 mL

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

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[1][2][3].

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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