

NEDD8-AMC

CATALOG #:	4843-25
AMOUNT:	25 µg
MOLECULAR WEIGHT:	8.7 kDa
PURITY:	≥ 95% by HPLC
PHYSICAL APPEARANCE:	Liquid
FORMULATION:	200 µM of protein (1.74 mg/mL) in 50 mM MES pH 6.0, 150 mM NaCl
STORAGE CONDITIONS:	Store at –80 °C. Avoid freeze/thaw cycles.

DESCRIPTION:

Prepared by the C-terminal derivatisation of NEDD8 with 7-amino-4-methylcoumarin. NEDD8-AMC acts as a useful and sensitive fluorogenic substrate for deNEDDylating enzymes, including NEDP1 and UCH-L3. It is a useful reagent for the study of deNEDDylating activity where detection sensitivity or continuous monitoring of activity is essential.

APPLICATION:

1. As a substrate for NEDDylating enzyme activity assays
2. Identification/confirmation of enzyme deVEDDylation activity
3. Investigation of deconjugating enzyme substrate specificity in comparison with alternative UBL (ubiquitin-like)-AMC substrates

ASSAY CONDITIONS:

Substrate concentration: 10 nM – 1.0 µM

Enzyme Concentration: 10 pM – 100 nM

Fluorescence of AMC released by the enzymes can be monitored using a fluorometer (Ex: 345 nm; Em: 445 nm).

REFERENCE:

1. Wilkinson, K.D., *et al.* (2005). *Methods Enzymol.* **399**, 37-51.
2. Gan-Erdene, T., *et al.* (2003). *J. Biol. Chem.* **278**, 28892-28900

HANDLING:

Do not take internally. Wear gloves and mask when handling

RELATED PRODUCTS:

- Calpain Inhibitor I, ALLN (**Cat. No. 1834-5, 25**)
- Calpain Inhibitor II, ALLM (**Cat. No. 1834-5, 25**)
- Clasto-Lactacystin β-Lactone (**Cat. No. 1710-100**)
- (-)-Epigallocatechin gallate (**Cat. No. 1841-50**)
- Lactacystin (**Cat. No. 1709-200**)
- MG-115 (**Cat. No. 1831-1, 5**)
- MG-132 (**Cat. No. 1703-5, 25**)
- EZSolution™ MG-132 (**Cat. No. 1791-5**)
- NEDD8-AMC (**Cat. No. 4843-25**)
- Proteasome Substrate, Fluorogenic (**Cat. No. 1832-1, 5**)
- Ubiquitin AMC (**Cat. No. 4842-25**)