

MATERIAL DATA SHEET**NEDD8-13C 15N, human recombinant****Cat. # UL-845**

Isotopically labeled NEDD8 is useful in determining total cellular concentrations of NEDD8 using the protein standard absolute quantification (PSAQ) or related methods. Highly purified ¹³C/¹⁵N labeled NEDD8 processed for the quantitative removal of glycine and buffer salts which can interfere with chemical and *in vitro* reactions. The ubiquitin-like protein NEDD8 is conjugated to targets by the NEDD8-specific E1 activating enzyme (AppBp1/Uba3), the Ubc12 E2 enzyme, and the ROC1/Rbx1 RING FINGER E3 ligase. NEDD8 plays a critical regulatory role in cell proliferation and development, and modifies nearly all members of the cullin family.

Product Information

Quantity:	100 µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 150 mM NaCl, 0.5 mM EDTA, 1 mM DTT. Actual concentration will vary with specific Lot #.
MW:	9012.5 Da (95% labeled)
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical amount for use as an internal recovery standard is approximately 1 µg per gram of protein lysate.
Storage:	Lyophilized powder at 4°C. Solubilized stock solution at -20°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Gong L. <i>et al.</i> (1999) <i>J. Biol. Chem.</i> 274 : 12036-12042 Hori T., <i>et al.</i> (1999) <i>Oncogene.</i> 18 :6829-6834 Kaesler S., <i>et al.</i> (2011) <i>Nature Methods</i> 8 : 691-696 Kamura T., <i>et al.</i> (1999) <i>Genes. Dev.</i> 13 :2928-2933 Kumar S., <i>et al.</i> (1993) <i>Biophys. Biochem. Res. Comm.</i> 195 :393-399 Morimoto M., <i>et al.</i> (2003) <i>Biophys. Biochem. Res. Comm.</i> 301 :392-398 Wada H., <i>et al.</i> (1999) <i>Biophys. Biochem. Res. Comm.</i> 275 :100-105 Whitby F.G., <i>et al.</i> (1998) <i>J. Biol. Chem.</i> 273 : 34983-34991
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