

MATERIAL DATA SHEET**Ubiquitin-¹³C ¹⁵N, human recombinant**
Cat. # U-700

Isotopically labeled ubiquitin is useful in determining total cellular concentrations of ubiquitin, or determining the ratio of free ubiquitin to poly-ubiquitin chains using the protein standard absolute quantification (PSAQ) or related methods. Highly purified ¹³C/¹⁵N labeled ubiquitin processed for the quantitative removal of glycine and buffer salts which can interfere with chemical and *in vitro* reactions. Ubiquitin is a 76 amino acid, highly conserved nuclear and cytoplasmic protein.

Product Information

Quantity:	100 µg, lyophilized powder
MW:	9034.6 Da (> 98% labeled)
Solubility:	Aqueous solutions up to 50 mg/ml
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:	Ciechanover A., <i>et al.</i> (1980) <i>J. Biol. Chem.</i> 255 : 7525-7528 Coux O., <i>et al.</i> (1996) <i>Ann. Rev. Biochem.</i> 65 : 801-847 Glickman M.H. and Ciechanover A. (2002) <i>Physiol. Rev.</i> 82 :373-428 Hershko A. and Ciechanover A. (1992) <i>Ann. Rev. Biochem.</i> 61 : 761-807 Kaieser S., <i>et al.</i> (2011) <i>Nature Methods</i> 8 : 691-696 Schwartz A.L. and Ciechanover A. (1999) <i>Ann. Rev. Med.</i> 50 : 57-74. Wilkinson K.D. and Audhya T.K. (1981) <i>J. Biol. Chem.</i> 256 : 9235-9241
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