
MATERIAL DATA SHEET

Methylated Ubiquitin-¹³C ¹⁵N, human recombinant
Cat. # U-720

Isotopically labeled ubiquitin is useful in determining total cellular concentrations of ubiquitin, or determining the ratio of free- to substrate-bound ubiquitin using the protein standard absolute quantification (PSAQ) or related methods. Reductive methylation of lysine residues renders ubiquitin unable to form poly-ubiquitin chains via lysine linkages with other Ub molecules. Methylated Ub can form an E1-catalyzed active thioester at the C-terminus allowing the molecule to be transferred to the lysines of substrate proteins in a mono-ubiquitinated or multi-mono-ubiquitinated fashion.

Product Information

Quantity:	100 µg, lyophilized powder
MW:	9255.5 Da (> 95% 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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840 Memorial Drive, Cambridge, MA 02139 Phone: 617-241-7072 FAX: 617-492-3565

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