

Lot # XXXXX

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MATERIAL DATA SHEET

Methylated Ubiquitin, *human recombinant*

Cat. # U-501

Reductive methylation of lysine residues renders ubiquitin unable to form poly-ubiquitin chains. 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 (mono-ubiquitination). Ideal for studies in which a reduction in poly-ubiquitin chain length is desired, or in instances when multi-mono-ubiquitination of a substrate protein is needed.

Product Information

Quantity:	1 mg 5 mg
MW:	8.5 kDa
Solubility:	Soluble in aqueous buffers up to 50 mg/ml.
Purity:	>95% by SDS-PAGE

Use & Storage

Use:	Typical concentrations for non rate-limiting support of <i>in vitro</i> conjugation reactions are 100 µM-500 µM depending on reaction conditions.
Storage:	Store at -20°C after solubilization. Avoid multiple freeze/thaw cycles.

Literature

References:	Hershko A. and Heller H. (1985) <u>Bioch. Biophys. Res. Comm.</u> 128 :1079-1086
	Hershko A., <i>et al.</i> (1991) <u>J. Biol. Chem.</u> 266 : 16376-16370
	Jentoft N. and Dearborn D.G. (1979) <u>J. Biol. Chem.</u> 254 :4359-4365
	Jentoft N. and Dearborn D.G. (1980) <u>Anal. Biochem.</u> 106 :186-190
	Jentoft N. and Dearborn D.G. (1983) <u>Methods. Enz.</u> 91 :570-579

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