
MATERIAL DATA SHEET

Ubiquitin, human recombinant**Cat. # U-100H**

Highly purified 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. It is found exclusively in eukaryotes, becomes covalently attached to substrate proteins by enzymes in the Ubiquitin-Proteasome Pathway (UPP) and has a major role in targeting cellular proteins for the ATP-dependent degradation by the 26S proteasome. Ubiquitination also affects proteasome-independent events such as protein localization, activity and function.

Product Information

Quantity:	10 mg, lyophilized powder
MW:	8.5 kDa
Solubility:	Aqueous solutions up to 50 mg/ml
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical concentration to support <i>in vitro</i> conjugation is 500 μ M to 1 mM depending on conditions
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 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
--------------------	--

For Laboratory Research Use Only, Not For Use in Humans