Lot # XXXXX

BostonBiochem

MATERIAL DATA SHEET

Ubiquitin, *mammalian*
Cat. # U-100

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-Proteosome Pathway (UPP) and has a major role in targeting cellular proteins for the ATP-dependent degradation by the 26S proteosome. Ubiquitination also affects proteosome-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 *in vitro* conjugation is 500 μM to 1 mM depending on conditions
Storage:	Lyophilized powder at 4 degrees C. Solubilized stock solution at -20 degrees C. Avoid multiple freeze/thaw cycles.

Literature

References:

Ciechanover A., *et al.* (1980) J. Biol. Chem. **255:** 7525-7528
Coux O., *et al.* (1996) Ann. Rev. Biochem. **65:** 801-847
Glickman M.H. and Ciechanover A. (2002) Physiol. Rev. **82**:373-428
Hershko A. and Ciechanover A. (1992) Ann. Rev. Biochem. **61:** 761-807
Schwartz A.L and Ciechanover A. (1999) Ann. Rev. Med. **50:** 57-74.
Wilkinson K.D. and Audhya T.K. (1981) J. Biol. Chem. **256:** 9235-9241

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