

MATERIAL DATA SHEET**myc-Ubiquitin, human recombinant**
Cat. # U-115

This fully functional N-terminal myc-tagged ubiquitin protein allows for the convenient detection or affinity purification of ubiquitinated proteins *in vitro*. The tag sequence (EQKLISEEDL) is an epitope derived from the C-terminal region of the human proto-oncoprotein p62^{c-myc}. This tag is specifically recognized by anti-myc antibodies or anti-myc-agarose.

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:	1 mg, lyophilized powder
MW:	9.3 kDa
Solubility:	Aqueous solutions up to 10mg/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:	Coux O., <i>et al.</i> (1996) <u>Ann. Rev. Biochem.</u> 65 : 801-847
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