

Human Recombinant Ubiquitin-K0

CATALOG #:	6498-500	500 µg
	6498-1000	1 mg
ALTERNATE NAMES:	UBB, Ribosomal Protein S27a, CEP80, UBA80, UBCEP1, UBCEP80, HUBCEP80, RPS27A.	
SOURCE:	E.Coli	
PURITY:	≥ 95% by RP-HPLC and SDS-PAGE	
MOL. WEIGHT:	8.760 kDa	
FORMULATION:	4 mg/ml in PBS.	
SOLUBILITY:	>30 mg/ml	
STORAGE CONDITIONS:	Aliquot and store at -80°C. Avoid repeated freezing and thawing cycles.	

DESCRIPTION:

Ubiquitin is a small polypeptide that can be conjugated via its C-terminus to amine groups of lysine residue on target proteins. This conjunction is referred to as monoubiquitylation. Additional ubiquitin moieties can be subsequently conjugated to this initial ubiquitin, utilizing any one of the seven lysine residues on the surface of ubiquitin. The formation of these ubiquitin chains is referred to as polyubiquitylation. This tag-free recombinant form of human ubiquitin is engineered to have all available lysines mutated to arginines. This molecule will not participate in polyubiquitin formation, and can therefore be used in control experiments for the study of ubiquitylation. Covalent attachment of ubiquitin to other proteins serves various functions, but its major role is to target cellular proteins for destruction. Cellular components that activate, transfer, remove, or simply recognize ubiquitin number in the hundreds, perhaps even in the thousands. In light of this complexity the ubiquitin pathway is ideal for a systems biology approach. Ubiquitin plays a very important role in regulated non-lysosomal ATP dependent protein degradation. The Ub-proteasome proteolytic pathway, which is a complex process, is implicated to be of great importance for regulating numerous cellular processes.

APPLICATIONS:

- Characterization of proteins responsible for ubiquitin conjugation or removal.
- Ligand binding studies with ubiquitin related proteins.
- Characterization of linkage type for target protein.
- Profiling of E2/E3 interactions.
- Characterization of E3 polyubiquitylation activity.

RELATED PRODUCTS:

- Ubiquitin, human recombinant (**Cat. No. 4841-100, 1000**)
- Human recombinant Ubiquitin – WT (**Cat. No. 6394-500, 1000**)
- Human recombinant Ubiquitin – K6 (**Cat. No. 6395-500, 1000**)
- Human recombinant Ubiquitin – K11 (**Cat. No. 6396-500, 1000**)
- Human recombinant Ubiquitin – K27 (**Cat. No. 6397-500, 1000**)
- Human recombinant Ubiquitin – K29 (**Cat. No. 6398-500, 1000**)
- Human recombinant Ubiquitin – K33 (**Cat. No. 6399-500, 1000**)
- Human recombinant Ubiquitin – K48 (**Cat. No. 6400-500, 1000**)
- Human recombinant Ubiquitin – K63 (**Cat. No. 6401-500, 1000**)
- Human recombinant Ubiquitin – K6R (**Cat. No. 6403-500, 1000**)
- Human recombinant Ubiquitin – K11R (**Cat. No. 6404-500, 1000**)
- Human recombinant Ubiquitin – K27R (**Cat. No. 6405-500, 1000**)
- Human recombinant Ubiquitin – K29R (**Cat. No. 6406-500, 1000**)
- Human recombinant Ubiquitin – K33R (**Cat. No. 6407-500, 1000**)
- Human recombinant Ubiquitin – K48R (**Cat. No. 6408-500, 1000**)
- Human recombinant Ubiquitin – K63R (**Cat. No. 6409-500, 1000**)
- Human recombinant Ubiquitin – K48R K63R (**Cat. No. 6410-500, 1000**)
- Ubiquitin-AMC (**Cat. No. 4842-25**)
- Ubiquitin Aldehyde (**Cat. No. 4845-50**)
- Human Recombinant UCHL1 (**Cat. No. 6306-100**)
- Human Recombinant UCHL3 (**Cat. No. 6358-100**)
- Human Recombinant UCHL5 (**Cat. No. 6359-100**)
- UbcH1, human recombinant (GST-tag) (**Cat. No. 4846-10**)
- UbcH5a, human recombinant (His-tag) (**Cat. No. 4851-10**)
- UbcH5b, human recombinant (His-tag) (**Cat. No. 4852-10**)
- UbcHL1, human recombinant (GST-tag) (**Cat. No. 4855-50**)
- LDN-57444 (**Cat. No. 2016-5, -25**)
- NSC-687852 (**Cat. No. 2012-5, -25**)
- TCID (**Cat. No. 2204-5, -25**)

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