Human Recombinant Ubiquitin-K11R

CATALOG #: 6404-500 500 µg
6404-1000 1 mg

ALTERNATE NAMES: UBB, Ribosomal Protein S27a, CEP80, UBA80, UBCEP1, UBCEP80, HUBCEP80, RPS27A.

SOURCE: E.Coli

PURITY: ≥ 95% by RP-HPLC

MOL. WEIGHT: 8.592 kDa

FORMULATION: 4 mg/ml in 20 mM Tris, pH 7.5, 0.15 M NaCl and 10% glycerol.

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 a single substitution of arginine for lysine at position 11. 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:
- Investigation of E1-E2-E3 mediated ubiquitin ligation.
- Investigation of DUB linkage specificity.

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 – K0 **(Cat. No. 6402-500, 1000)**
- Human recombinant Ubiquitin – K6R **(Cat. No. 6403-500, 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)**

FOR RESEARCH USE ONLY! Not to be used in humans.

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