

Active Recombinant Human UBB Protein, His-tagged

Cat. No. UBB-02H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human UBB protein with His tag at N-terminal was expressed in E.coli.

Species Human

Source E.coli

Description

This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence. Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat. An aberrant form of this protein has been detected in patients with Alzheimer's disease and Down syndrome. Pseudogenes of this gene are located on chromosomes 1, 2, 13, and 17. Alternative splicing results in multiple transcript variants.

Bio-activity

Recombinant Human His6-Ubiquitin can be conjugated to substrate proteins via the subsequent actions of a Ubiquitin-activating (E1) enzyme, a Ubiquitin-conjugating (E2) enzyme, and a Ubiquitin ligase (E3). Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human His6-Ubiquitin concentration of 0.2-1 mM.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Molecular Mass | 9.6 kDa |
| Purity | >95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| Storage Buffer | Lyophilized from a solution in deionized water. |
| Reconstitution | Reconstitute at 10 mg/mL in an aqueous solution. |
| GENE INFORMATION | |
| Gene Name | UBB |
| Official Symbol | UBB ubiquitin B [Homo sapiens (human)] |
| Synonyms | RPS27A; UBA52; UBB; ubiquitin B; UBB; UBC; Ubiquitin; HEL-S-50; |
| Gene ID | 7314 |
| mRNA Refseq | NM_018955 |
| Protein Refseq | NP_061828 |
| MIM | 191339 |
| UniProt ID | P0CG47 |

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