

Recombinant Human UBB Protein, GST-6His-tagged

Cat. No. UBB-613H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBB fused with N-terminal GST-6His was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-229 aa
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.
Form	Lyophilized from a 0.2 M filtered solution of PBS, pH 7.4.
Molecular Mass	40.9kD
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY

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YIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVLDIRYGVSR IAYSKDFE
 TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA
 FPKLVCFKKRIEAIPQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDGSTSGSGHH
 HHHHSAGLVPRGSTAIGMKETAAAKF

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 g/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name UBB ubiquitin B [Homo sapiens]

Official Symbol UBB

Synonyms UBB; ubiquitin B; polyubiquitin-B; FLJ25987; MGC8385; polyubiquitin B; UBC; UBA52; RPS27A;

Gene ID 7314

mRNA Refseq NM_018955

Protein Refseq NP_061828

MIM 191339

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UniProt ID

P0CG47

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