

Recombinant Human Ubiquitin B (Freeze-dried), His-tagged

Cat. No. UBB-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ubiquitin B expressed in <i>E. coli</i> was cloned from human cDNA. The protein consists of the human ubiquitin (residues 1-76, swissprot accession P62988) and of 6 c-terminal additional histidines. MW= 9.4 kDa.
Species	Human
Source	E.coli
Protein Length	1-76 a.a.
Description	Ubiquitin is a small, highly-conserved regulatory protein that is ubiquitously expressed in eukaryotes. Ubiquitination (or ubiquitylation) refers to the post-translational modification of a protein by the covalent attachment (via an isopeptide bond) of one or more ubiquitin monomers. The most prominent function of ubiquitin is labeling proteins for proteasomal degradation. Besides this function, ubiquitination also controls the stability, function, and intracellular localization of a wide variety of proteins. The ubiquitylation (or ubiquitination) cascade is started by the E1 enzyme.
Purity	>95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight <10 kDa.
Supplied As	Freeze-dried from pure water.
Nmr Standard	Solution at conc. up to 2mM of protein in 50mM Phosphate buffer, pH 7, 0.02% NaN ₃ , 10% D ₂ O, in NMR tube (high quality) sealed under inert atmosphere. Total

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	sample volume 550ul. The concentration is calculated from the absorbance at 280nm ($e_{280} = 1490 \text{ M}^{-1} \text{ cm}^{-1}$).
Isotopic Enrichment	15N, 13C, 2H in any combination. Selective labeling of some aminoacids is available on request.
Note	Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum concentration of 2mM.
Storage	The protein is stable at 4 °C for months and at 25 °C for at least two weeks. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	UBB ubiquitin B [Homo sapiens]
Synonyms	UBB; ubiquitin B; MGC8385; UBA80; FLJ25987; polyubiquitin B; OTTHUMP00000064960; UBCEP1; OTTHUMP00000064961; UBCEP2
Gene ID	7314
mRNA Refseq	NM_018955
Protein Refseq	NP_061828
MIM	191339
UniProt ID	P62988
Chromosome Location	17p12-p11

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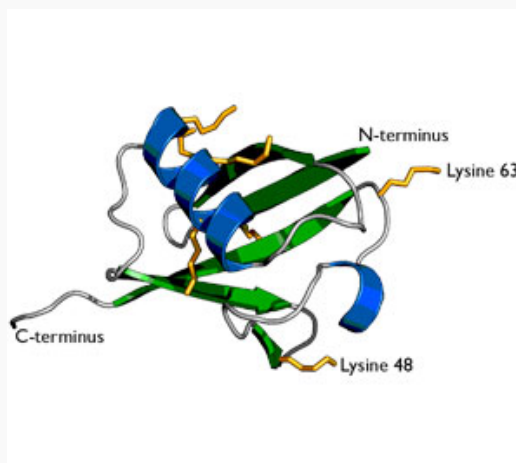
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Pathway Parkinson's disease

Function protein binding; transcription regulator activity

A cartoon representation of ubiquitin.



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