

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	<i>E. coli</i>
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 (e₂₈₀ = 1490 M⁻¹ 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/defrost cycles./defrost 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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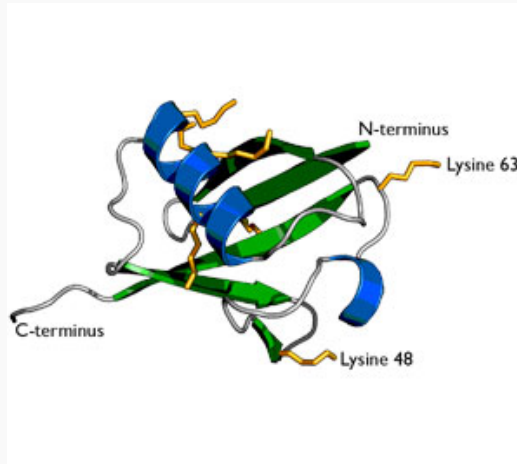
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Pathway Parkinson"s disease

Function protein binding; transcription regulator activity

A cartoon representation of ubiquitin.



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