

Active Recombinant Human Phospho-UBB protein

Cat. No. UBB-01HP Lot. No. (See product label)

SPECIFICATION

Product Overview	E. coli-derived human Ubiquitin protein Phosphorylated on Ser 65.
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.
Form	X mg/ml (X μ M) in 10 mM HEPES pH 7.5
Bio-activity	Reaction conditions will need to be optimized for each specific application.
Molecular Mass	8.6 kDa
Purity	>98%, by SDS-PAGE under reducing conditions and visualized by Colloidal

 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

Coomassie® Blue stain. LC/MS analysis (AQUA) indicates a purity of 95.7%, with 4.3% unmodified Ubiquitin

Applications

Bioactivity

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 opening.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name

UBB ubiquitin B [Homo sapiens (human)]

Official Symbol

UBB

Synonyms

RPS27A; UBA52; UBB; UBB ubiquitin B; UBC; Ubiquitin

Gene ID

7314

mRNA Refseq

NM_018955

Protein Refseq

NP_061828

MIM

191339

UniProt ID

P0CG47

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