# UPB1 Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | UPB1, Recombinant Protein |
| **Full Product Name** | Recombinant Human UPB1 |
| **Product Gene Name** | UPB1 recombinant protein |
| **Host** | E Coli |
| **Form/Format** | Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4 |
| **Purity/Purification** | Greater than 95% by SDS-PAGE gel analyses |
| **Preparation and Storage** | Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution |
| **Molecular Weight** | 43,166 Da |
| **Sequence Positions** | 289-384 |
| **OMIM** | AF163312 mRNA |
| **3D Structure** | ModBase 3D Structure for Q9UBR1 |
| **Species** | Human |
| **Tag** | N-terminal His-IF2DI Tag |
| **Reconstitution** | Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for UPB1 recombinant protein** | Western Blot (WB), ELISA (EIA) |
| **Related Product Information for UPB1 recombinant protein** | MBS7614389 is a recombinant protein targeting UPB1. Also known as Recombinant Human UPB1. Host: E Coli. |
| **Other Notes** | Small volumes of UPB1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UPB1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 7706509 |
| **NCBI GeneID** | 51733 |
| **NCBI Accession #** | NP_057411.1 |
| **UniProt Primary Accession #** | Q9UBR1 |
| **UniProt Secondary Accession #** | Q9UIR3; A3KMF8 |
| **UniProt Related Accession #** | Q9UBR1 |
| **GenBank Nucleotide #** | NM_016327.2 |
| **NCBI Official Full Name** | beta-ureidopropionase |

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| **NCBI Official Synonym Full Names** | beta-ureidopropionase 1 |
| **NCBI Official Symbol** | UPB1 |
| **NCBI Official Synonym Symbols** | BUP1 |
| **UniProt Protein Name** | Beta-ureidopropionase |
| **UniProt Synonym Protein Names** | BUP-1; Beta-alanine synthase; N-carbamoyl-beta-alanine amidohydrolase |
| **Protein Family** | Transcription factor |
| **UniProt Gene Name** | UPB1 |
| **UniProt Synonym Gene Names** | BUP1 |
| **NCBI Protein Information** | beta-ureidopropionase |
| **NCBI Summary for UPB1** | This gene encodes a protein that belongs to the CN hydrolase family. Beta-ureidopropionase catalyzes the last step in the pyrimidine degradation pathway. The pyrimidine bases uracil and thymine are degraded via the consecutive action of dihydropyrimidine dehydrogenase (DHPDH), dihydropyrimidinase (DHP) and beta-ureidopropionase (UP) to beta-alanine and beta-aminoisobutyric acid, respectively. UP deficiencies are associated with N-carbamyl-beta-amino aciduria and may lead to abnormalities in neurological activity. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for UPB1** | Converts N-carbamoyl-beta-aminoisobutyrate and N-carbamoyl-beta-alanine (3-ureidopropanoate) to, respectively, beta-aminoisobutyrate and beta-alanine, ammonia and carbon dioxide. |
| **Research Articles on UPB1** | **1.** The c.977G>A (p.R326Q) is the most common mutation of the UPB1 gene in Chinese. The predicted incidence indicates that beta-ureidopropionase deficiency is significantly underdiagnosed in the Chinese population. |
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