# Active Recombinant Human CTSZ Protein, His-tagged

**Cat. No.** CTSZ-191H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Active Recombinant Human CTSZ Protein(Q9UBR2) (Met 1-Val 303) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | 1-303 aa |
| **Form** | Lyophilized from sterile PBS, pH 7.4. |
| **Bio-activity** | Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK (Dnp)-OH. The specific activity is >800 pmoles/min/μg. |
| **Molecular Mass** | The secreted recombinant human CTSZ (pro form) consists of 291 amino acids and has a predicted molecular mass of 33 kDa. The apparent molecular mass of rhCTSZ is approximately 40 kDa in SDS-PAGE under reducing conditions due to glycosylation. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Purity** | > 97 % as determined by SDS-PAGE |
| **Storage** | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze- |

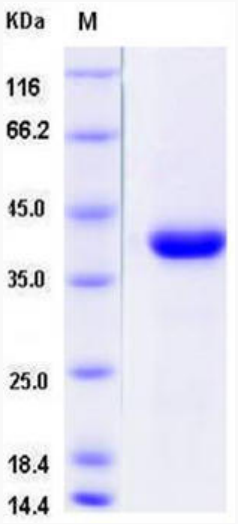
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| | thaw cycles. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

## GENE INFORMATION

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| **Gene Name** | CTSZ cathepsin Z [ Homo sapiens ] |
| **Official Symbol** | CTSZ |
| **Synonyms** | CTSZ; cathepsin Z; carboxypeptidase LB; cathepsin B2; cathepsin IV; cathepsin X; cathepsin Y; cathepsin Z1; CTSX; cysteine type carboxypeptidase; lysosomal carboxypeptidase B; cathepsin P; preprocathepsin P; cysteine-type carboxypeptidase; FLJ17088; |
| **Gene ID** | 1522 |
| **mRNA Refseq** | NM_001336 |
| **Protein Refseq** | NP_001327 |
| **MIM** | 603169 |
| **UniProt ID** | Q9UBR2 |

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| **SDS-PAGE** |  |



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