

## Active Recombinant Human CTSZ Protein, His-tagged

**Cat. No.** CTSZ-658H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CTSZ Protein is produced by Baculovirus expression system. This protein is fused with a His tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 24-303 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | Cathepsin Z, also known Cathepsin X and Cathepsin P, is a member of the C1 family of lysosomal cysteine proteases. It exhibits carboxy-monopeptidase and carboxy-dipeptidase activity. This protein regulates maturation of dendritic cells and plays important role in the initiation of adaptive immunity. It is also involved in tumor and immune cells as higher expression is found in tumour and immune cells of prostate and gastric carcinomas and in macrophages of gastric mucosa. Recombinant human Cathepsin Z protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Bio-activity</b>     | Specific activity is > 1,400 pmol/min/ug in which one unit will convert 1.0 pmole of Mca-PLGL-Dpa-AR-NH <sub>2</sub> to MCA- Pro-Leu-OH per minute at pH 3.5 at 25 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 32.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>      | GLYFRRGQTC YRPLRGDGLA PLGRSTYPRP HEYLSPADLP KSWDWRNVDG<br>VNYASITRNQ HIPQYCGSCW AHASTSAMAD RINIKRKGAW PSTLLSVQNV<br>IDCNAGSCE GGNDLSVWDY AHQHGIPEDET CNNYQAKDQE CDKFNQCGTC<br>NEFKECHAIR NYTLWRVGDY GSLSGREKMM AEIYANGPIS CGIMATERLA<br>NYTGGIYAEY QDTTYINHVV SVAGWGISDG TEYWIVRNSW GEPWGERGWL<br>RIVTSTYKDG KGARYNLAIE EHCTFGDPIV LEHHHHHH |
| <b>Endotoxin</b>        | < 1.0 EU per 1 ug of protein (determined by LAL method)                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 95 % by SDS - PAGE                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>            | For research use only. This product is not intended or approved for human, diagnostics or veterinary use.                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles.                                                                                                                                                                       |
| <b>Concentration</b>    | 0.5 mg/ml (determined by Absorbance at 280 nm)                                                                                                                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | CTSZ cathepsin Z [ Homo sapiens ]                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>  | CTSZ                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>         | 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;                                                                                   |
| <b>Gene ID</b>          | 1522                                                                                                                                                                                                                                                                                                                                        |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                |           |
|----------------|-----------|
| mRNA Refseq    | NM_001336 |
| Protein Refseq | NP_001327 |
| MIM            | 603169    |
| UniProt ID     | Q9UBR2    |
|                |           |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA