

## Recombinant Human Cathepsin Z

**Cat. No.** CTSZ-406H    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>                | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>           | Cathepsin Z, also known as CTSZ, is a human gene. The protein encoded by this gene is a lysosomal cysteine proteinase and member of the peptidase C1 family. It exhibits both carboxy-monopeptidase and carboxy-dipeptidase activities. The encoded protein has also been known as cathepsin X and cathepsin P. This gene is expressed ubiquitously in cancer cell lines and primary tumors and, like other members of this family, may be involved in tumorigenesis. At least two transcript variants of this gene have been found, but the full-length nature of only one of them has been determined. |
| <b>State Of Matter</b>       | Frozen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>                | >95% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>             | <1.0 EU/g as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Weight</b>      | The predicted molecular weight of Recombinant Human Cathepsin X/Z/P is Mr 40 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage And Stability</b> | This lyophilized protein is stable for six to twelve months when stored desiccated at -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

 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

20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

## GENE INFORMATION

|                            |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CTSZ cathepsin Z [ Homo sapiens ]                                                                                            |
| <b>Synonyms</b>            | cathepsin Z; CTSX; FLJ17088; CTSZ; cathepsin X; preprocathepsin P; EC 3.4.18.1; OTTHUMP00000031409; Cathepsin P; Cathepsin X |
| <b>Gene ID</b>             | 1522                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_001336                                                                                                                    |
| <b>Protein Refseq</b>      | NP_001327                                                                                                                    |
| <b>MIM</b>                 | 603169                                                                                                                       |
| <b>UniProt ID</b>          | Q9UBR2                                                                                                                       |
| <b>Chromosome Location</b> | 20q13                                                                                                                        |
| <b>Pathway</b>             | Lysosome; Membrane Trafficking                                                                                               |
| <b>Function</b>            | cysteine-type endopeptidase activity; peptidase activity                                                                     |

 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

PDB rendering based  
on 1deu.



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