

## Recombinant Human CTSZ, His-tagged

**Cat. No.** CTSZ-2328H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant human CTSZ protein, fused to His-tag at N-terminus, was expressed in E.coli .                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 62-303 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>CTSZ is a lysosomal cysteine proteinase and member of the peptidase C1 family. It exhibits both carboxy-monopeptidase and carboxy-dipeptidase activities. The 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.</p> |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 29.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | <p>MGSSHHHHHH SSGLVPRGSH MGSLPKSWDW RNVDGVNYAS ITRNQHIPQY<br/> CGSCWAHAAS SAMADRINIK RKGAWPSTLL SVQNVIDCGNAGSCEGGNDL<br/> SVWDYAHQHG IPDETCNNYQ AKDQECDFKN QCGTCNEFKE CHAIRNYTLW<br/> RVGDYGSLSG REKMMAEIYA NGPISCGIMA TERLANYTGG IYAEYQDTTY<br/> INHVSVAGW GISDGTEYWI VRNSWGEPWG ERGWLRIVTS TYKDGKGARY</p>                                                                                                                                                                                                               |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | NLAIEEHCTF GDPIV                                                                                                                                                                                                                                          |
| <b>Purity</b>           | >90% by SDS - PAGE                                                                                                                                                                                                                                        |
| <b>Applications</b>     | SDS-PAGE                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                     |
| <b>Concentration</b>    | 1mg/ml                                                                                                                                                                                                                                                    |
| <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                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_001336                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | NP_001327                                                                                                                                                                                                                                                 |
| <b>MIM</b>              | 603169                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | Q9UBR2                                                                                                                                                                                                                                                    |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 20q13.32                                                                                                                                                                                                                                                                                                            |
| <b>Pathway</b>             | Clathrin derived vesicle budding, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Lysosome Vesicle Biogenesis, organism-specific biosystem; Membrane Trafficking, organism-specific biosystem; trans-Golgi Network Vesicle Budding, organism-specific biosystem; |
| <b>Function</b>            | cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity;                                                                                                                                                                                                                         |

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