

## Recombinant Human CTSA Protein, His/GST-tagged

**Cat. No.** CTSA-489H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant Human CTSA(Asp215~Met470) fused with His/GST tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Asp215~Met470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | his gene encodes a member of the peptidase S10 family of serine carboxypeptidases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate two chains that comprise the heterodimeric active enzyme. This enzyme possesses deamidase, esterase and carboxypeptidase activities and acts as a scaffold in the lysosomal multienzyme complex. Mutations in this gene are associated with galactosialidosis. |
| <b>Form</b>             | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 61.4kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Identity</b>         | Reconstitute in PBS or others                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein                                                                                                                                                                                                                          |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in PBS or others                                                                                                                                                                                                                                                                                                                |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CTSA cathepsin A [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b> | CTSA                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | CTSA; cathepsin A; GSL, PPGB, protective protein for beta galactosidase (galactosialidosis); lysosomal protective protein; carboxypeptidase C; carboxypeptidase Y like kininase; carboxypeptidase L; deamidase; lysosomal carboxypeptidase A; urinary kininase; carboxypeptidase-L; beta-galactosidase 2; protective protein cathepsin A; carboxypeptidase Y-like kininase; beta-galactosidase protective protein; GSL; GLB2; NGBE; PPCA; PPGB; |
| <b>Gene ID</b>         | 5476                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_000308                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_000299                                                                                                                                                                                                                                                                                                                                                                                                                                       |

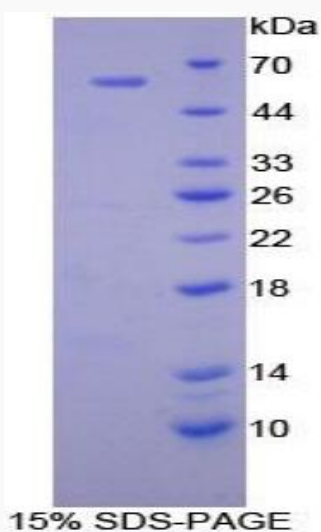
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MIM 613111

UniProt ID P10619



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