

# Recombinant Human CTSA Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CTSA-788H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	CTSA MS Standard C13 and N15-labeled recombinant protein (NP_000299) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This 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>Molecular Mass</b>	56.12 kDa
<b>AA Sequence</b>	MTSSPRAPPGEQGRGGAEMIRAAPPPLFLLLLLLLLLVSWASRGEAAPDQDEIQRPLPG LAKQPSFRQYSGYLKGSKHLHYWFVESQKDPENSPVVLWLNGGPGCSSLDGLL TEHGPFLVQPDGVTLEYNPYSWNLIANVLYLESPAGVGFYSDDKFYATNDTEVAQ SNFEALQDFRFLPEYKNNKLFLTGESYAGIYIPTLAVLVMQDPSMNLQGLAVGNGL SSYEQNDNSLVYFAYYHGLLGNRLWSSLQTHCCSQNKCNFYDNKDLECVTNLQEV ARIVGNSGLNIYNLYAPCAGGVPSHFYRYEKDTVVVQDLGNIFTRLPLKRMWHQALLR

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SGDKVRMDPPCTNTTAASTYLNNPYVRKALNIPEQLPQWDMCNFLVNLQYRRLYRS  
MNSQYLKLLSSQKYQILLYNGDVDMACNFMGDEWFVDSL NQKMEVQRRPWLVKY  
GDSGEQIAGFVKEFSHIAFLT IKGAGHMVPTDKPLAAFTMFSRFLNKQPYTRTRPLE  
QKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** CTSA cathepsin A [ *Homo sapiens* (human) ]

**Official Symbol** CTSA

**Synonyms** 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;

**Gene ID** 5476

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mRNA Refseq [NM\\_000308](#)

Protein Refseq [NP\\_000299](#)

MIM [613111](#)

UniProt ID [P10619](#)

SDS-PAGE



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