

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

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

SPECIFICATION

Product Overview	CTSA MS Standard C13 and N15-labeled recombinant protein (NP_000299) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	56.12 kDa
AA Sequence	MTSSPRAPPGEQGRGGAEMIRAAPPPLFLLLLLLLLLSWASRGEAAPDQDEIQRLPG LAKQPSFRQYSGYLKSGSGSKHLHYWFVESQKDPENSPVVLWLNGGPGCSSLDGLL TEHGPFLVQPDGVTLEYNPYSWNLIANVLYLESPAGVGFSYSDDKFYATNDTEVAQ SNFEALQDFFRLFPEYKNNKLFLTGESYAGIYIPTLAVLVMQDPSMNLQGLAVGNGL SSYEQNDNSLVYFAYYHGLLGNRLWSSLQTHCCSQNKCNFYDNKDLECVTNLQEV ARIVGNSGLNIYNLYAPCAGGVPSHFRYEKDTVVVQDLGNIFTRLPLKRMWHQALLR

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

SGDKVRMDPPCTNTTAASTYLNPNPYVRKALNIEQLPQWDMCNFLVNLQYRRLYRS
MNSQYLKLLSSQKYQILLYNGDVDMACNFMGDEWFVDSL NQKMEVQRRPWLVKY
GDSGEQIAGFVKEFSHIAFLT IKGAGH MVPTDKPLAAFTMFSRFLNKQPYTRTRPLE
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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