CTSA Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CTSA, Lysate
Full Product Name	Human CTSA Protein Lysate
Product Gene Name	CTSA lysate
Product Synonym Names	CTSA; GLB2; GSL; NGBE; PPCA; PPGB
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	52,489 Da
OMIM	256540
3D Structure	ModBase 3D Structure for P10619
Related Product Information for CTSA lysate	Human CTSA Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of CTSA lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CTSA purchase	MBS8410083 is a lysate targeting CTSA. Also known as Human CTSA Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTSA. It may not necessarily be applicable to this product.

NCBI GI #	119395729
NCBI GeneID	5476
NCBI Accession #	NP_000299
UniProt Primary Accession #	P10619
UniProt Secondary Accession #	Q561W6; Q5JZH1; Q96KJ2; Q9BR08; Q9BW68; B2R798
UniProt Related Accession #	P10619
GenBank Nucleotide #	NM_000308
NCBI Official Full Name	lysosomal protective protein isoform a
NCBI Official Synonym Full Names	cathepsin A
NCBI Official Symbol	CTSA
NCBI Official Synonym Symbols	GSL; GLB2; NGBE; PPCA; PPGB
UniProt Protein Name	Lysosomal protective protein

UniProt Synonym Protein Names	Carboxypeptidase C; Carboxypeptidase L; Cathepsin A; Protective protein cathepsin A; PPCA; Protective protein for beta-galactosidase
Protein Family	Lysosomal protective protein
UniProt Gene Name	CTSA
UniProt Synonym Gene Names	PPGB; PPCA
UniProt Entry Name	PPGB_HUMAN
NCBI Protein Information	lysosomal protective protein; beta-galactosidase 2; beta-galactosidase protective protein; carboxypeptidase C; carboxypeptidase L; carboxypeptidase Y-like kininase; carboxypeptidase-L; deamidase; lysosomal carboxypeptidase A; protective protein cathepsin
UniProt Comments for CTSA	CTSA: Protective protein appears to be essential for both the activity of beta-galactosidase and neuraminidase, it associates with these enzymes and exerts a protective function necessary for their stability and activity. This protein is also a carboxypeptidase and can deamidate tachykinins. Defects in CTSA are the cause of galactosialidosis (GSL). A lysosomal storage disease associated with a combined deficiency of beta-galactosidase and neuraminidase, secondary to a defect in cathepsin A. All patients have clinical manifestations typical of a lysosomal disorder, such as coarse facies, cherry red spots, vertebral changes, foam cells in the bone marrow, and vacuolated lymphocytes. Three phenotypic subtypes are recognized. The early infantile form is associated with fetal hydrops, edema, ascites, visceromegaly, skeletal dysplasia, and early death. The late infantile type is characterized by hepatosplenomegaly, growth retardation, cardiac involvement, and a normal or mildly affected mental state. The juvenile/adult form is characterized by myoclonus, ataxia, angiokeratoma, mental retardation, neurologic deterioration, absence of visceromegaly, and long survival. Belongs to the peptidase S10 family. Protein type: Endoplasmic reticulum; Mitochondrial; Protease; EC 3.4.16.5 Chromosomal Location of Human Ortholog: 20q13.1 Cellular Component: nucleoplasm; lysosomal lumen; membrane; intracellular membrane-bound organelle; endoplasmic reticulum; lysosome Molecular Function: serine carboxypeptidase activity; carboxypeptidase activity; enzyme activator activity Biological Process: positive regulation of catalytic activity; intracellular protein transport; cellular protein metabolic process; sphingolipid metabolic process; dolichol-linked oligosaccharide biosynthetic process; protein amino acid N-linked glycosylation via asparagine; glycosphingolipid metabolic process; post-translational protein modification; proteolysis Disease: Galactosialidosis
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