



# Recombinant Human Lysosomal protective protein (CTSA)

<b>Product Code</b>	CSB-MP006184HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P10619
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>AP DQDEIQRLPG LAKQPSFRQY SGYLGSGSK HLHYWFVESQ            KDPENSPVVL WLNGGPGCSS LDGLLTHEGP FLVQPDGRTL EYNPYSWNL            ANVLYLESPA GVGFSYSDDK FYATNDTEVA QSNFEALQDF FRLFPEYKNN            KLFLTGESYA GIYIPTLAVL VMQDPSMNLQ GLAVGNGLSS YEQNDNSLVY            FAYYHGLLGN RLWSSLQTHC CSQNKCNFYD NKDLECVTNL QEVARIVGNS            GLNIYNLYAP CAGGVPSHFR YEKDTVVVQD LGNIFTRLPL KRMWHQALLR            SGDKVRMDPP CTNTTAASTY LNNPYVRKAL NIPEQLPQWD MCNFLVNLQY            RRLYRSMNSQ YLKLSSQKY QILLYNGDVD MACNFMGDEW FVDSLNLQKME            VQRRPWLVKY GDSGEQIAGF VKEFSHIAFL TIKGAGHMVP TDKPLAAFTM            FSRFLNKQPY</p>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	CTSA
<b>Protein Names</b>	Recommended name: Lysosomal protective protein EC= 3.4.16.5 Alternative name(s): Carboxypeptidase C Carboxypeptidase L Cathepsin A Protective protein cathepsin A Short name= PPCA Protective protein for beta-galactosid
<b>Expression Region</b>	29-480
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a glycoprotein which associates with lysosomal enzymes beta-galactosidase and neuraminidase to form a complex of high molecular weight multimers. The formation of this complex provides a protective role for stability and activity. Deficiencies in this gene are linked to multiple forms of galactosialidosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.