



# Recombinant Human Cathepsin G (CTSG)

<b>Product Code</b>	CSB-YP006190HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P08311
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	IIGGRESRPH SRPYMAYLQI QSPAGQSRCG GFLVREDFVL TAAHCWGSNI NVTLGAHNIQ RRENTQQHIT ARRAIRHPQY NQRTIQNDIM LLQLSRRVRR NRNVNPVALP RAQEGLRPGT LCTVAGWGRV SMRRGTDTLR EVQLRVQRDR QCLRIFGSYD PRRQICVGDR RERKAAFKGD SGGPLLCNNV AHGIVSYGKS SGVPPEVFTR VSSFLPWIRT TMRSFKLLDQ METPL
<b>Source</b>	Yeast
<b>Target Names</b>	CTSG
<b>Protein Names</b>	Recommended name: Cathepsin G Short name= CG EC= 3.4.21.20
<b>Expression Region</b>	21-255
<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 protein, a member of the peptidase S1 protein family, is found in azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation. Transcript variants utilizing alternative polyadenylation signals exist 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.
<b>Shelf Life</b>	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.