



# Recombinant Rat Cathepsin D (Ctsd)

<b>Product Code</b>	CSB-MP006187RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P24268
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>EPVSEL LKNYLDAQYY GEIGIGTPPQ CFTVVFDTGS SNLWVPSIHC            KLLDIACWVH HKYNSDKSST YVKNGTSDI HYGSGSLSGY LSQDTVSVPC            KSDLGGIKVE KQIFGEATKQ PGVVFIAAKF DGILGMGYPF ISVNKVLVPV            DNLMKQKLVE KNIFS FYLNR DPTGQP GGEL MLGGTDSRY Y HGELSYLNV T            RKAYWQVHMD QLEVGSELT L CKGGCEAIVD TGTSLLVGPV DEVKELQKAI            GAVPLIQGEY MIPCEKVSSL PIITFKLGGQ NYELHPEKYI LKVSQAGKTI            CLSGFMGMDI PPPSGPLWIL GDVFIGCYT VFDREYNRVG FAKAATL</p>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Ctsd
<b>Protein Names</b>	Recommended name: Cathepsin D EC= 3.4.23.5 Cleaved into the following 4 chains: 1. Cathepsin D 12 kDa light chain 2. Cathepsin D 9 kDa light chain 3. Cathepsin D 34 kDa heavy chain 4. Cathepsin D 30 kDa heavy chain
<b>Expression Region</b>	65-407
<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 lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease.
<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.