



# Recombinant Mouse Cathepsin D (Ctsd)

<b>Product Code</b>	CSB-EP006187MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P18242
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>EPVSEL LKNYLDAQYY GDIGIGTPPQ CFTVVFDTGS SNLWVPSIHC          KILDIACWVH HKYNSDKSST YVKNGTSTFDI HYGSGSLSGY LSQDTVSVPC          KSDQSKARGI KVEKQIFGEA TKQPGIVFVA AKFDGILGMG YPHISVNNVL          PVFDNLMQQK LVDKNIFSFY LNRDPEGQPG GELMLGGTDS KYHGGELSYL          NVTRKAYWQV HMDQLEVGNE LTLCKGGCEA IVDTGTSLLV GPVEEVKELQ          KAIGAVPLIQ GEYMIPCEKV SSLPTVYLKL GGKNYELHPD KYILKVSQGG          KTICLSGFMG MDIPPPSGPL WILGDVFIGS YYTVFDRDNN RVGFANAVVL</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Ctsd
<b>Protein Names</b>	Recommended name: Cathepsin D EC= 3.4.23.5
<b>Expression Region</b>	65-410
<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>	<p>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.</p>
<b>Reconstitution</b>	<p>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.</p>
<b>Shelf Life</b>	<p>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.</p>