



# Recombinant Sheep Cathepsin D (CTSD)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP006187SH  |
| <b>Abbreviation</b>      | CTSD  |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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.  |
| <b>Uniprot No.</b>       | Q9MZS8  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Ovis aries (Sheep)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | G PIPELLTNYM DAQYYGEIGI GTPPQCFTVV FDTGSANLWV PSIHCKLLDI<br>ACWVHHKYNS DKSSTYVKNG TTFDIHYGSG SLSGYLSQDT VSVPCNPSSS<br>SPGGVTVQRQ TFGIAIKQPG VVFIAAKFDG ILGMAYPRIS VNNVLPVFDN<br>LMRQKLVDKN VFSFFLNDRP KAQPGEELML GGTDSKYRGL SLTYHNVTRQ<br>AYWQIHMDQL DVGSSLTVCK GGCEAIVDTG TSLMVGPDVE VRELHKAIGA<br>VPLIQGEYMI PCEKVSSLPQ VTLKLGKDY TLSPEDYTLK VSQAGTTVCL<br>SGFMGMDIPP PGGPLWILGD VFGR   |
| <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> | 40-365  |
| <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.   |



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