



# Recombinant Dog Cathepsin S (CTSS)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-BP006204DO  |
| <b>Abbreviation</b>      | CTSS  |
| <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>       | Q8HY81  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Canis lupus familiaris (Dog) (Canis familiaris)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | LPDSVD WREKGCVTEV KYQGSCGACW AFSAVGALEA QLKLKTGKLV<br>SLSAQNLVDC STEKYGNKGC NGGFMTTAFQ YIIDNNGIDS EASYPYKAMN<br>GKCRYDSKKR AATCSKYTEL PFGSEDALKE AVANKGPVSV AIDASHYSFF<br>LYRSGVYYEP SCTQNVNHGV LVVGYGNLNG KDYWLVKNSW<br>GLNFGDQGYI RMARNSGNHC GIASYPSYPE I   |
| <b>Source</b>            | Baculovirus   |
| <b>Target Names</b>      | CTSS  |
| <b>Protein Names</b>     | Recommended name: Cathepsin S EC= 3.4.22.27   |
| <b>Expression Region</b> | 115-331   |
| <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 C1 family, is a lysosomal cysteine proteinase that may participate in the degradation of antigenic proteins to peptides for presentation on MHC class II molecules. The encoded protein can function as an elastase over a broad pH range in alveolar macrophages. 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.<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.  |