

Product datasheet for **TP727431**

Ctss Mouse Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant Mouse Cathepsin S/CTSS (C-6His) |
| Species: | Mouse |
| Expression cDNA Clone or AA Sequence: | Val18-Ile340 |
| Tag: | C-His |
| Buffer: | Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4. |
| Note: | Recombinant Mouse Cathepsin S is produced by our Mammalian expression system and the target gene encoding Val18-Ile340 is expressed with a 6His tag at the C-terminus. |
| Storage: | Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Stability: | 12 months from date of despatch |
| Locus ID: | 13040 |
| UniProt ID: | O70370 |
| Summary: | Cathepsin S is a lysosomal enzyme that belongs to the papain family of cysteine proteases. This protein is expressed by antigen presenting cells including macrophages, B-lymphocytes, dendritic cells and microglia. Moreover, cathepsin S is expressed in some epithelial cells. Compared with the abundant cathepsins B, L and H, cathepsin S shows a restricted tissue distribution, with highest levels in spleen, heart, and lung. In addition, evidences indicated that cathepsin S generates A beta from amyloidogenic fragments of beta APP in the endosomal/lysosomal compartment, and is implicated in the pathogenesis of Alzheimer's disease (AD) and Down Syndrome (DS). |



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