

## 32-8704: Recombinant Mouse Cathepsin S/CTSS (C-6His)

**Gene :** Ctss  
**Gene ID :** 13040  
**Uniprot ID :** O70370

### Description

Source: Human Cells.  
MW :37.5kD.

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. 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).

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** 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.  
**Amino Acid :** VCSVAMEQLQRDPTLDYHWDLWKKTHEKEYKDKNEEEVRRLIWEKNLKFIMIHNLSEYSGMHTYQVGMNDM  
GDMTNEEILCRMALRIPRQSPKTVFRSYSNRTLPTVDWREKGCVTEVKYQGSCGACWAFSAVGALEGQL  
KLKTGKLISLSAQNLVDCSNEEKYGNKCGGGYMTEAFQYIIDNGGIEADASYPKATDEKCHYNSKNRAATCS  
RYIQLPFGDEDALKEAVATKGPVSVGIDASHSSFFFKSGVYDDPSCTGNVNHGVLVVGYGTLTGKDYWLKKN  
SWGLNFGDQGYIRMARNKNHCGIASYCSYPEIVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.