

Recombinant Mouse Cathepsin S/CTSS (C---6His)

Catalog No: CM37

Description	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.
Source	Human Cells
Alternative name	Cathepsin S, CTSS
Accession No.	O70370
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
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.
Amino Acid Sequence	VCSVAMEQLQRDPTLDYHWDLWKKTHEKEYKDKNEEEVRLIWEKNLKFIMIHNLEYSMGMHTYQVG MNDMGDMTNEEILCRMGALRIPRQSPKTVTFRSYSNRTLPTVDWREKGCVTEVKYQGSCGACWAFS AVGALEGQLKLTGKLISLSAQNLVDCSNEEKYGNKGCGGGYMTEAFQYIIDNGGIEADASYPYKATDE KCHYNSKNRAATCSRYIQLPFGDEDALKEAVATKGPVSVGIDASHSSFFFYKSGVYDDPSCTGNVNHG VLVVGYGTLDGKDYWLKNSWGLNFGDQGYIRMARNNKNHCGIASYCSYPEIVD HHHHHH
Background	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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