

Recombinant Mouse CTSS

Catalog#:P02094 Derived from Human Cells

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. Accession#: O70370 Known as: Cathepsin S; CTSS
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
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 $\leq -20^{\circ}\text{C}$, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
RECONSTITUTION	<i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i> <i>It is not recommended to reconstitute to a concentration less than 100μg/ml.</i> Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
QUALITY CONTROL	Mol Mass: 37.5kDa AP Mol Mass: 37&28-32&14kDa, reducing conditions. Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1ng/ μ g (1 EU/ μ g) as determined by LAL test.
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).
SDS-PAGE	