

Recombinant Human CTS protein, His-tagged

Cat. No. CTS-H5224 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTS protein (Gln17-Ile331), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	315
Description	Cathepsin S is also known as CTSS, which is a member of the peptidase C1 family. Cathepsin S is a lysosomal cysteine protease that may participate in the degradation of antigenic proteins to peptides for presentation on MHC class II molecules. Cathepsin S can function as an elastase over a broad pH range in alveolar macrophages. The catalytic activity of cathepsin S is similar to cathepsin L, but with much less activity on Z-Phe-Arg- -NHMe, and more activity on the Z-Val-Val-Arg- -Xaa compound.
Form	Lyophilized from 0.22 um filtered solution in 50 mM MES, 100 mM NaCl, pH6.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 36.6 kDa. The protein migrates as 36-42 kDa (pro) and 26 kDa (mature) under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

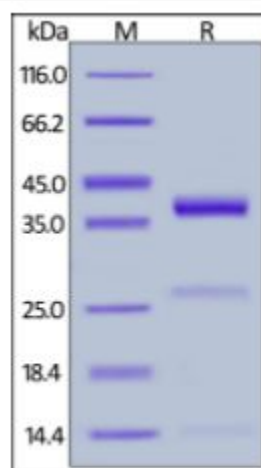
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	CTSS
Official Symbol	CTSS
Synonyms	Cathepsin S
Gene ID	1520
mRNA Refseq	NM_004079.5
Protein Refseq	NP_004070.3
MIM	116845
UniProt ID	P25774

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**SDS-PAGE of CTS-
H5224**



Human Cathepsin S, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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