

Active Recombinant Human CTSS protein, His-tagged

Cat. No. CTSS-282H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human CTSS protein(NP_004070.3) (Met 1-Ile 331) with a carboxy-terminal polyhistidine tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-331 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	Measured by its ability to cleave a fluorogenic peptide substrate, (7-methoxycoumarin-4-yl) acetyl-Arg-Pro-Lys-Pro-Val-Glu-Nva-Trp-Arg-Lys (2, 4-dinitrophenyl)-NH ₂ . Cleavage of ES002 can be measured using excitation and emission wavelengths at 320 nm and 405 nm, respectively. The specific activity is >300 pmoles/min/μg.
Molecular Mass	The secreted recombinant human CTSS consists of 326 amino acids with the predicted molecular mass of 37 kDa as estimated by SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 97 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to

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aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

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 cathepsin S [Homo sapiens]
Official Symbol	CTSS
Synonyms	CTSS; cathepsin S; MGC3886; FLJ50259;
Gene ID	1520
mRNA Refseq	NM_001199739
Protein Refseq	NP_001186668
MIM	116845
UniProt ID	P25774

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SDS-PAGE

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