

Recombinant Human Cathepsin S

Cat. No. CTSS-750H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant, human cathepsin S was expressed in <i>E. coli</i> without a tag or fusion protein. MW = 24.5 kDa.
Species	Human
Source	E.coli
Description	A major lysosomal cysteine proteinase that is preferentially expressed in macrophages and microglia. Shown to be involved in the processing of antigenic peptides for presentation by MHC Class II molecules on the surface of antigen-presenting cells by mediating invariant (Ii) chain degradation. Inhibition of cathepsin S results in impaired antigen-presentation.
Purity	≥90% by SDS-PAGE.
Form	Liquid. In 35 mM potassium phosphate, 35 mM Sodium acetate, 2 mM DTT, 2 mM EDTA, 50% ethylene glycol, pH 6.5.
Specific Activity	≥30,000 mU/mg protein.
Unit Definition	One unit is defined as the amount of enzyme that will hydrolyze 1.0 μmol Z-VVR-AMC per min at 37°C, pH 6.5. Note: 1 mU = 1 milliunit.
Toxicity	Harmful (MSDS available upon request).

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Storage ≤ -70°C. Avoid freeze/thaw. Following initial thaw, aliquot and freeze (-70°C).

GENE INFORMATION

Gene Name CTSS cathepsin S [Homo sapiens]

Synonyms CTSS; cathepsin S; MGC3886; Cathepsin S; EC 3.4.22.27; OTTHUMP00000032942

Gene ID 1520

mRNA Refseq NM_004079

Protein Refseq NP_004070

MIM 116845

UniProt ID P25774

Chromosome Location 1q21

Pathway Antigen processing and presentation; Lysosome

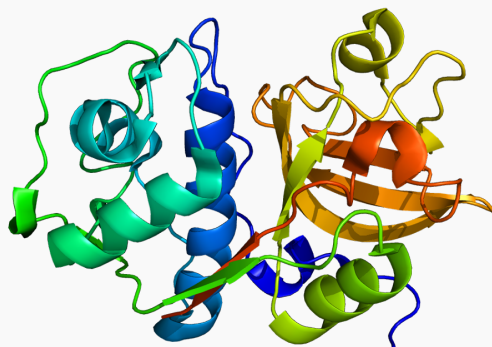
Function cysteine-type endopeptidase activity; peptidase activity

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