

Recombinant Human cathepsin W, His-tagged

Cat. No. CTSW-404H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CTSW, 22-376aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	22-376 a.a.
Description	The protein encoded by this gene, a member of the peptidase C1 family, is a cysteine proteinase that may have a specific function in the mechanism or regulation of T-cell cytolytic activity. The encoded protein is found associated with the membrane inside the endoplasmic reticulum of natural killer and cytotoxic T-cells. Expression of this gene is up-regulated by interleukin-2. Recombinant human CTSW protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	42 kDa (378aa)
AA Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSIRGPLRA QDLGPQPLEL KEAFKLFQIQ FNRSYLSPEE HAHRLDIFAH NLAQAQLQE EDLGTAEFGV TPFSDLTEEE FGQLYGYRRA AGGVPSMGRE IRSEEPEESV PFSCDWRKVA GAISPIKDQK NCNCCWAMAA AGNIETLWRI SFWDFVDVSV QELLDCGRCG DGCHGGFVWD AFITVLNNSG LASEKDYPFQ GKVRAHRCHP KKYQKVAWIQ DFIMLQNEH RIAQYLATYG PITVTINMKP LQLYRKGVIK ATPPTCDPQL VDHSVLLVGF</p>

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GSVKSEEGIW AETVSSQSQP QPPHPTYWI LKNSWGAQWG EKGYFRLHRG
SNTCGITKFP LTARVQKPDM KPRVSCPP

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [CTSW cathepsin W \[Homo sapiens \]](#)

Official Symbol CTSW

Synonyms CTSW; cathepsin W; cathepsin W (lymphopain); lymphopain; LYPN;

Gene ID [1521](#)

mRNA Refseq [NM_001335](#)

Protein Refseq [NP_001326](#)

MIM [602364](#)

UniProt ID [P56202](#)

Chromosome Location 11q13.1

Pathway Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

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Function

cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity;

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