



## CTSL peptide (DAG-P0308)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2012]
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the peptidase C1 family.
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">CTSL cathepsin L [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CTSL
<b>Synonyms</b>	CTSL; cathepsin L; MEP; CATL; CTSL1; cathepsin L1; major excreted protein;
<b>Entrez Gene ID</b>	<a href="#">1514</a>
<b>mRNA Refseq</b>	<a href="#">NM_001257971.1</a>

<b>Protein Refseq</b>	<a href="#">NP_001244900.1</a>
<b>UniProt ID</b>	P07711
<b>Chromosome Location</b>	9q21.33
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Assembly of collagen fibrils and other multimeric structures, organism-specific biosystem; Class I MHC mediated antigen processing and presentation, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Collagen formation, organi
<b>Function</b>	collagen binding; cysteine-type endopeptidase activity; cysteine-type peptidase activity; fibronectin binding; histone binding; protein binding; proteoglycan binding;