

## Recombinant Human CTSH, GST-tagged

Cat. No. CTSH-11688H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human CTSH protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 58-289a.a.

**Description** The protein encoded by this gene is a lysosomal cysteine proteinase important in the overall degradation of lysosomal proteins. It is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. The encoded protein, which belongs to the peptidase C1 protein family, can act both as an aminopeptidase and as an endopeptidase. Increased expression of this gene has been correlated with malignant progression of prostate tumors.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

**Gene Name** CTSH cathepsin H [ Homo sapiens ]

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<b>Official Symbol</b>	CTSH
<b>Synonyms</b>	CTSH; cathepsin H; CPSB; pro-cathepsin H; ACC 4; ACC 5; aleurain; cathepsin B3; cathepsin BA; N-benzoylarginine-beta-naphthylamide hydrolase; ACC-4; ACC-5; minichain; MGC1519; DKFZp686B24257;
<b>Gene ID</b>	<a href="#">1512</a>
<b>mRNA Refseq</b>	<a href="#">NM_004390</a>
<b>Protein Refseq</b>	<a href="#">NP_004381</a>
<b>MIM</b>	<a href="#">116820</a>
<b>UniProt ID</b>	<a href="#">P09668</a>
<b>Chromosome Location</b>	15q25.1
<b>Pathway</b>	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;
<b>Function</b>	HLA-A specific activating MHC class I receptor activity; aminopeptidase activity; apoptotic protease activator activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; endopeptidase activity; kininogen binding; peptidase activity;

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