

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 ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 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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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	CTSH
Synonyms	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;
Gene ID	1512
mRNA Refseq	NM_004390
Protein Refseq	NP_004381
MIM	116820
UniProt ID	P09668
Chromosome Location	15q25.1
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;
Function	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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