Recombinant Human CTSO protein, His & T7-tagged

Cat. No. CTSO-1103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTSO aa. (Arg111~Ser317 (Accession # P43234) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg111~Ser317
Description	The protein encoded by the gene is a cysteine proteinase and a member of the papain superfamily. This proteolytic enzyme is involved in cellular protein degradation and turnover. The recombinant form of this enzyme was shown to degrade synthetic peptides typically used as substrates for cysteine proteinases and its proteolytic activity was abolished by an inhibitor of cyteine proteinase.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.4kDa.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.8.

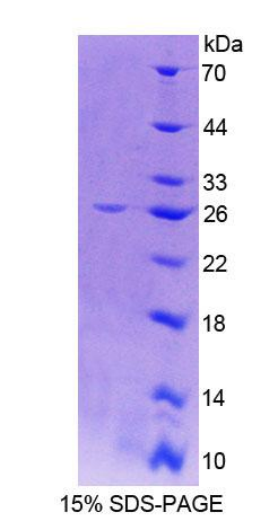
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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

Gene Name	CTSO cathepsin O [Homo sapiens (human)]
Official Symbol	CTSO
Synonyms	CTSO; cathepsin O; CTSO1
Gene ID	1519
mRNA Refseq	NM_001334.2
Protein Refseq	NP_001325.1

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UniProt ID	P43234
SDS-PAGE	

15% SDS-PAGE

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