Recombinant Human CST5 protein, His & T7-tagged

Cat. No. CST5-1663H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CST5 aa. (Gly21~Val142 (Accession # P28325)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly21~Val142
Description	The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes a protein found in saliva and tears. The encoded protein may play a protective role against proteinases present in the oral cavity.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

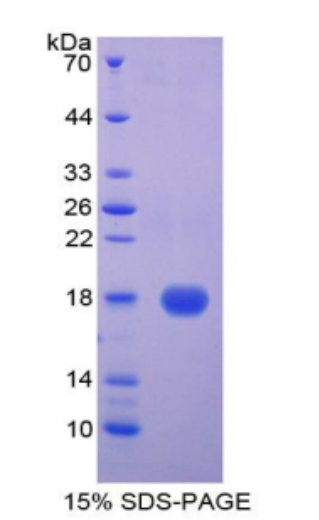
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Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate 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 PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	8.3

GENE INFORMATION

Gene Name	CST5 cystatin D [Homo sapiens (human)]
Official Symbol	CST5
Synonyms	CST5; cystatin D; cystatin-D; cystatin 5; cysteine-proteinase inhibitor
Gene ID	1473
mRNA Refseq	NM_001900.4
Protein Refseq	NP_001891.2

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UniProt ID	P28325
SDS-PAGE	

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