

Cystatin SN Recombinant Protein | CST1 recombinant protein

Cystatin SN Protein, Human, Recombinant (His Tag)

CATALOG # AAA257978	HOST HEK293 Cells
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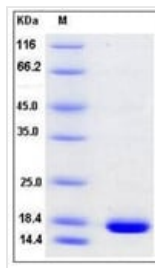
PRODUCT SYNONYMS

Cystatin SN; Cystatin SN Protein; Human; Recombinant (His Tag); Human Cystatin SN/CST1 Protein (His Tag); CST1 Protein; cystatin SN; CST1 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Ser14 1
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Trp 21
Tag	His Tag
Protein Construction	A DNA sequence encoding the human CST1 (P01037-1)(Met 1-Ser 141) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	It is recommended that sterile water (80ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Stability: Samples are stable for up to twelve months from date of receipt at -70°C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CST1 recombinant protein	Background: Cystatin-SN, also known as Cystain-SA-I, Cystatin-1, Salivary cystatin-SA-1 and CST1, is a secreted protein which belongs to thecystatin family. 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. Cystatin-SN/CST1 is expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level). Cystatin-SN/CST1 is also expressed in saliva, tears, urine and seminal fluid. Human saliva appears to contain several cysteine proteinase inhibitors that are immunologically related to cystatin S but that differ in their specificity due to amino acid sequence differences. Human salivary cystatins include Cystatin-S, Cystatin-S1, Cystatin-S2, Cystatin- SA, Cystatin-SN, Cystatin-C and Cystatin-D. Cystatin-SN is a much better inhibitor of papain and dipeptidyl peptidase I than is cystatin-S, although both inhibit ficin equally well.
References	Saitoh E., et al.,(1987), Human cysteine-proteinase inhibitors: nucleotide sequence analysis of three members of the cystatin gene family. Gene 61:329-338.Al-Hashimi I., et al., (1988), Purification, molecular cloning, and sequencing of salivary cystatin SA-1.J. Biol. Chem. 263:9381-9387.Deloukas P., et al.,(2001), The DNA sequence and comparative analysis of human chromosome 20.Nature 414:865-871.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19882251
NCBI GeneID	1469
NCBI Accession #	NP_001889.2
NCBI GenBank Nucleotide #	NM_001898.2
UniProt Accession #	P01037; Q96LE6; Q9UCQ6
Molecular Weight	Molecular Mass: The secreted recombinant human CST1 consists of 132 amino acids and has a calculated molecular mass of 15.6 kDa. It migrates as an approximately 17 kDa band in SDS-PAGE under reducing conditions as predicted.
NCBI Official Full Name	cystatin-SN
NCBI Official Synonym Full Names	cystatin SN
NCBI Official Symbol	CST1
NCBI Protein Information	cystatin-SN; cystatin 1; cystatin-1; cystain-SA-I; cystatin SA-I; salivary cystatin-SA-1; cysteine proteinase inhibitor, type 2 family
UniProt Protein Name	Cystatin-SN
UniProt Gene Name	CST1
UniProt Entry Name	CYTN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/cst1-recombinant-protein-hek293-cells/257978>