Recombinant Human CST1 protein, His-tagged

Cat. No. CST1-2038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CST1 (Trp21-Ser141) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Trp21-Ser141
Description	Cystatin-1 (CST1) is also known as Cystatin-SN, Cystain-SA-I, Salivary cystatin-SA-1, which is secreted protein and belongs to the cystatin family. Cystatin-1 is expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level) and 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. Cystatin SN, with a pI of 7.5, is a much better inhibitor of papain and dipeptidyl peptidase I than is cystatin S, although both inhibit ficin equally well.
Predicted N Terminal	Trp21
Form	Lyophilized from 0.22 μm filtered solution in 25 mM MES, 150 mM NaCl, pH6.0, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 15.1 kDa. The protein migrates as 17-19 kDa under reducing (R) condition (SDS-PAGE).

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Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CST1
Official Symbol	CST1
Synonyms	CST1; cystatin SN; cystatin-SN; cystatin 1; cystatin-1; cystain-SA-I; cystatin SA-I; salivary cystatin-SA-1; cysteine proteinase inhibitor, type 2 family
Gene ID	1469
mRNA Refseq	NM_001898
Protein Refseq	NP_001889
MIM	123855

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UniProt ID	P01037
SDS-PAGE of CST1-2038H	Human Cystatin SN, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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