

Cystatin SA/CST2 Protein, Human (HEK293, His)

Cat. No.:	HY-P7891
Synonyms:	rHuCystatin-SA/CST2, His ; Cystatin-SA; Cystatin-2; Cystatin-S5; CST2
Species:	Human
Source:	HEK293
Accession:	P09228 (W21-A141)
Gene ID:	1470
Molecular Weight:	Approximately 16.0 kDa

PROPERTIES

AA Sequence	<p>W S P Q E E D R I I E G G I Y D A D L N D E R V Q R A L H F V I S E Y N K A T E</p> <p>D E Y Y R R L L R V L R A R E Q I V G G V N Y F F D I E V G R T I C T K S Q P N</p> <p>L D T C A F H E Q P E L Q K K Q L C S F Q I Y E V P W E D R M S L V N S R C Q E</p> <p>A</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The complete nucleotide sequence of the gene that codes for the precursor form of the neutral salivary protein, cystatin SN, was determined. The gene, which we name CST1, contains three exons and two intervening sequences. The expected CAT and ATA boxes are present in the 5'-flanking region of the gene. Partial nucleotide sequence determination of a second gene revealed that it codes for the precursor form of the acidic salivary protein, cystatin SA. This gene, which we name CST2, has the same gene organization as CST1^[2].</p>
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REFERENCES

[1]. Ganeshnarayan K, et al Human salivary cystatin SA exhibits antimicrobial effect against *Aggregatibacter actinomycetemcomitans*. J Periodontal Res. 2012;47(5):661-673.

[2]. Saitoh E, et al. Human cysteine-proteinase inhibitors: nucleotide sequence analysis of three members of the cystatin gene family. Gene. 1987;61(3):329-338.

Caution: Product has not been fully validated for medical applications. For research use only.

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