

Cystatin S/CST4 Protein, Human (HEK293, His)

Cat. No.:	HY-P7866
Synonyms:	rHuCystatin-S/CST4, His; Cystatin-S; Cystatin-4; Cystatin-SA-III; Salivary Acidic Protein 1; CST4
Species:	Human
Source:	HEK293
Accession:	P01036 (S21-A141)
Gene ID:	1472
Molecular Weight:	Approximately 16.0 kDa

PROPERTIES

AA Sequence	<p> S S S K E E N R I I P G G I Y D A D L N D E W V Q R A L H F A I S E Y N K A T E D E Y Y R R P L Q V L R A R E Q T F G G V N Y F F D V E V G R T I C T K S Q P N L D T C A F H E Q P E L Q K K Q L C S F E I Y E V P W E D R M S L V N S R C Q E A </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM MES, 150 mM NaCl, pH 5.5.
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> Cystatin S (CST4) protein exhibits robust inhibitory activity against papain and ficin enzymes, demonstrating a potent inhibitory effect. Additionally, it partially inhibits stem bromelain and bovine cathepsin C, though it does not impede the activities of porcine cathepsin B or clostripain. Notably, the inhibition of papain follows a non-competitive mode. This diverse inhibitory profile highlights the specificity of CST4 in regulating the activities of various proteases, suggesting its role in modulating proteolytic processes. The distinctive inhibitory properties of CST4 against specific enzymes contribute to its functional significance in cellular and physiological contexts, underscoring its potential impact on protease-mediated pathways and cellular homeostasis. </p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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