

Cystatin D/CST5 Protein, Human (HEK293, His)

Cat. No.:	HY-P70020
Synonyms:	rHuCystatin-D/CST5, His; Cystatin-D; Cystatin-5; CST5
Species:	Human
Source:	HEK293
Accession:	P28325 (G21-V142)
Gene ID:	1473
Molecular Weight:	Approximately 15.0 kDa

PROPERTIES

AA Sequence	<p> G S A S A Q S R T L A G G I H A T D L N D K S V Q C A L D F A I S E Y N K V I N K D E Y Y S R P L Q V M A A Y Q Q I V G G V N Y Y F N V K F G R T T C T K S Q P N L D N C P F N D Q P K L K E E E F C S F Q I N E V P W E D K I S I L N Y K C R K V </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 D (CST5), a cysteine proteinase inhibitor, is believed to serve a potential protective function against proteinases found in the oral cavity. Exhibiting specificity in its inhibitory activity, Cystatin D shows a preference order for inhibition against cathepsin S, cathepsin H, cathepsin L, and cathepsin B. This suggests a nuanced regulatory role of Cystatin D in modulating the activities of specific cysteine proteinases, highlighting its significance in maintaining proteostasis and potential involvement in oral health.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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