

## Cystatin C/CST3 Protein, Rat (HEK293, His)

Cat. No.:	HY-P74209
Synonyms:	Cystatin-C; Cystatin-3; Cst3
Species:	Rat
Source:	HEK293
Accession:	P14841 (M1-A140)
Gene ID:	25307
Molecular Weight:	16-25 kDa

### PROPERTIES

AA Sequence	<p>G T S R P P P R L L    G A P Q E A D A S E    E G V Q R A L D F A    V S E Y N K G S N D</p> <p>A Y H S R A I Q V V    R A R K Q L V A G I    N Y Y L D V E M G R    T T C T K S Q T N L</p> <p>T N C P F H D Q P H    L M R K A L C S F Q    I Y S V P W K G T H    T L T K S S C K N A</p>
Biological Activity	Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate Z-FR-AMC. Read at excitation and emission wavelengths of 380 nm and 460 nm (top read). The IC <sub>50</sub> value is 5.37 nM.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM HEPES, 150 mM NaCl, pH 7.0.
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 <sub>2</sub> 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	Cystatin C, also known as CST3 protein, is a crucial regulator of cysteine proteinases. This protein acts as an inhibitor, specifically targeting enzymes such as cathepsin B, H, and L, to maintain proper enzyme activity. Its physiological role as a local regulator highlights its significance in various biological processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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