

## Cystatin M/CST6 Protein, Human (HEK293, His)

Cat. No.:	HY-P70062
Synonyms:	rHuCystatin-M/CST6, His; Cystatin-M; Cystatin-6; Cystatin-E; CST6
Species:	Human
Source:	HEK293
Accession:	Q15828 (R29-M149)
Gene ID:	1474
Molecular Weight:	Approximately 14.0-19.0 kDa

### PROPERTIES

AA Sequence	R P Q E R M V G E L      R D L S P D D P Q V      Q K A A Q A A V A S      Y N M G S N S I Y Y F R D T H I I K A Q      S Q L V A G I K Y F      L T M E M G S T D C      R K T R V T G D H V D L T T C P L A A G      A Q Q E K L R C D F      E V L V P W Q N S      S Q L L K H N C V Q M
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM MES, 150 mM NaCl, pH 5.5 or 20 mM Tris-HCl, 10% maltose, 0.1% Tween 80, pH 9.0.
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	<p>Cystatin M/CST6 Protein serves as a high-affinity inhibitor for cathepsin L, cathepsin L2 (cathepsin V), and legumain, highlighting its role in modulating key proteolytic processes. Beyond its inhibitory function, this protein is actively involved in the regulation of epidermal cornification, contributing to the intricate processes of skin barrier formation. Additionally, Cystatin M/CST6 plays a significant role in hair follicle morphogenesis and maintenance, further underscoring its importance in fundamental aspects of skin biology and homeostasis. The dual functionality of Cystatin M/CST6 in enzyme inhibition and the regulation of skin development emphasizes its multifaceted role in maintaining the integrity and function of cutaneous tissues.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA