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Datasheet for ABIN7534685
CST5 Protein (His tag)

Overview

Quantity:	100 µg
Target:	CST5
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CST5 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Cystatin-D/CST5 Protein
Sequence:	GSASAQSRTL AGGIHATDLN DKSVQCALDF AISEYNKVIN KDEYYSRPLQ VMAAYQQIVG GVNYFNVKF GRTTCTKSQP NLDNCPFNDQ PKLKEEFCS FQINEVPWED KISILNYKCR KV
Specificity:	Gly21-Val142
Purity:	> 90 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate Z-FR-AM. The IC50 value is <18 nM.

Target Details

Target:	CST5
Alternative Name:	Cystatin-D/CST5 (CST5 Products)
Background:	<p>Description: The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Cystatins are natural inhibitors of papain-like (family C1) and legumain-related (family C13) cysteine peptidases. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. As a member of type 2 cystatin, cystatin D is a single-domain protein and also has cysteine residues that form disulfide bridges. The functions of Cystatin D are largely unknown. However, Cystatin D has been shown to inhibit coronavirus replication at its physiological concentration (0.12_x005f</p> <p>Name: CST5,MGC71922,CST5</p>
Gene ID:	1473
UniProt:	P28325

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.