

Datasheet for ABIN7519912

CST6 Protein (His tag)

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Overview

Quantity:	10 µg
Target:	CST6
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CST6 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Cystatin-M/CST6 Protein
Sequence:	RPQERMVGEL RDLSPDDPQV QKAAQAAVAS YNMGSNSIYY FRDTHIIKAQ SQLVAGIKYF LTMEMGSTDC RKTRVTGDHV DLTTCPAAG AQQEKLRCDF EVLVVPWQNS SQLLKHNCVQ M
Specificity:	Arg29-Met149
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.01 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-AMC. The IC50 value is approximately 16 nM.

Target Details

Target:	CST6
Alternative Name:	Cystatin-M/CST6 (CST6 Products)
Background:	<p>Description: Cystatin E/M encoded by the CST6 gene is a member of family 2 of the cystatin superfamily. It inhibits papain and cathepsin B, two of the cysteine proteases. Its mRNA was found in many tissues by the two groups who did initial cloning. However, its protein was found only in skin and sweat glands by a third group. In addition to being a cysteine protease inhibitor, cystatin E/M is also a substrate for transglutaminases. It is required for viability and for correct formation of cornified layers in the epidermis and hair follicles, as <i>ichq</i> mice, with a null mutation in the cystatin E/M gene, have defects in epidermal cornification and die between 5 and 12 days of age. Cystatin E/M expression and function may not be limited to cutaneous epithelia. For example, it is found in rat brain and is induced during neuronal cell differentiation.</p> <p>Name: CST6</p>
Gene ID:	1474
UniProt:	Q15828

Application Details

Restrictions:	For Research Use only
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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:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>