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Datasheet for ABIN7195335
CST6 Protein (His tag)

Overview

Quantity:	20 µg
Target:	CST6
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CST6 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Cystatin E/CST6 Protein (His Tag)(Active)
Sequence:	Met 1-Ala 152
Characteristics:	A DNA sequence encoding the extracellular domain of mouse CST6 (NP_082899.1) (Met 1-Ala 152) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate ZFR-AMC,R&D Systems, Catalog # ES009.The IC50 is < 20 nM.

Target Details

Target:	CST6
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Target Details

Alternative Name: Cystatin E/CST6 ([CST6 Products](#))

Background: Cystatin E/M, also referred to as CST6, is a member of type 2 cysteine proteinase inhibitors of the cystatin superfamily, and inhibits papain and cathepsin B. Cystatin E is a low molecular mass secreted protein existing in both a glycosylated (17 kDa) and an unglycosylated (14 kDa) form, with two characteristic intrachain disulfide bridges. Expression of cystatin M/E is found to be restricted to the epidermis, more specifically in the stratum granulosum, sweat glands, sebaceous glands, and the hair follicles. In addition to its function as a cysteine protease inhibitor, cystatin M/E also serves as a target for cross-linking by transglutaminases. Accordingly, cystatin M/E was suggested to be involved in barrier formation and maintenance. Furthermore, studies have revealed that cystatin M/E is frequently epigenetically inactivated during breast carcinogenesis, and thus be regarded as a candidate of tumour suppressor gene.

Synonym: 1110017E11Rik,ichq,N28197

Molecular Weight: 15.2 kDa

NCBI Accession: [NP_082899](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.