

Recombinant Human Cystatin E/CST6 Protein (His Tag)

Catalog No. PKSH031606

Note: Centrifuge before opening to ensure complete recovery of vial contents.

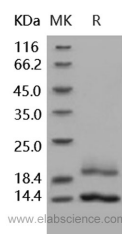
Description

Synonyms	Cystatin-M; Cystatin-6; Cystatin-E; CST6
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Met 149
Accession	NP_001314.1
Calculated Molecular Weight	15 kDa
Observed molecular weight	15 & 21 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 25mM MES, 0.15M NaCl, pH 6.5
Reconstitution	Please refer to the printed manual for detailed information.

Data



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

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carcinogenesis, and thus be regarded as a candidate of tumour suppressor gene.