



Synonym

CST4, Cystatin-4, Cystatin-S, Cystatin-S5, Cystatin-SA-III

Source

Human Cystatin S, His Tag (CS4-H5223) is expressed from human 293 cells (HEK293). It contains AA Ser 21 - Ala 141 (Accession # [AAH65714](#)).

Predicted N-terminus: Ser 21

Molecular Characterization

Cystatin S(Ser 21 - Ala 141)	Poly-his
AAH65714	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 15.0 kDa. The protein migrates as 15 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m filtered solution in 25 mM MES, 150 mM NaCl, pH 6.0 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

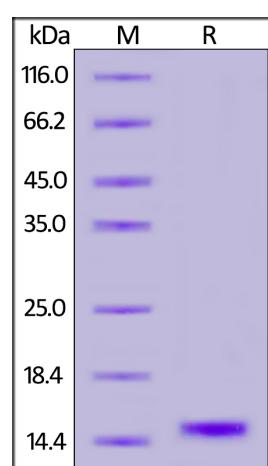
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Cystatin S, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Cystatin-4 (CST4) is also known as Cystatin-S, Salivary acidic protein 1, which is a secreted protein, which belongs to the cystatin family. Cystatin-S is expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level) and is also expressed in saliva, tears, urine and seminal fluid. Cystatin-4 / Cystatin S strongly inhibits papain and ficin, partially inhibits stem bromelain and bovine cathepsin C, but does not inhibit porcine cathepsin B or clostripain. Papain is inhibited non-competitively.

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Human Cystatin S / CST4 Protein, His Tag

Catalog # CS4-H5223



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