

Synonym

CST5,Cystatin-5,Cystatin-D

Source

Human Cystatin D, His Tag(CS5-H5220) is expressed from human 293 cells (HEK293). It contains AA Gly 21 - Val 142 (Accession # [AAH69514](#)).

Predicted N-terminus: Gly 21

Molecular Characterization

Cystatin D(Gly 21 - Val 142)	Poly-his
AAH69514	

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 14.8 kDa. The protein migrates as 15 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.

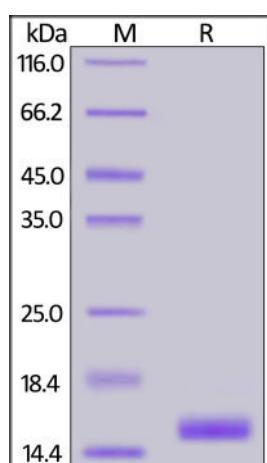
Storage

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

Background

Cystatin-5 (CST5) is also known as Cystatin-D, is a secreted thermostable protein, which belongs to the cystatin family. CST5 is a cysteine proteinase inhibitor that possibly plays a protective role against proteinases present in the oral cavity. The order of preference for inhibition is cathepsin S > cathepsin H > cathepsin L > cathepsin B. CST5 / cystatin-D may play a protective role against proteinases present in the oral cavity.

Clinical and Translational Updates

Human Cystatin D / CST5 Protein, His Tag

Catalog # CS5-H5220



Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.