

**Synonym**

CST2, Cystatin-2, Cystatin-SA, Cystatin-S5

**Source**

Human Cystatin SA, His Tag (CS2-H5224) is expressed from human 293 cells (HEK293). It contains AA Trp 21 - Ala 141 (Accession # [AAH62679](#)).

Predicted N-terminus: Trp 21

**Molecular Characterization**

Cystatin SA (Trp 21 - Ala 141) AAH62679	Poly-his
--	----------

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 15.2 kDa. The protein migrates as 15-16 kDa under reducing (R) condition (SDS-PAGE).

**Endotoxin**

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu\text{m}$  filtered solution in 50 mM Tris, 150 mM NaCl, pH8.0 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.*

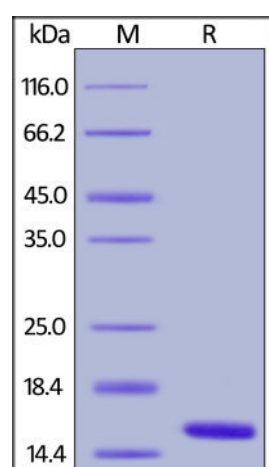
**Storage**

For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human Cystatin SA, 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-2 (CST2) is also known as Cystatin-SA, Cystatin-S5, is a secreted thiol protease inhibitor, which belongs to the cystatin family. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions, where they appear to provide protective functions. The CST1, CST2, CST4, and CST5 are expressed in differential, tissue-specific patterns. CST2 is expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level) and is also expressed in submandibular gland and parotid gland.

**Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.