

Product datasheet

Recombinant human Cystatin SA/CST2 protein ab180061

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Description

Product name	Recombinant human Cystatin SA/CST2 protein
Biological activity	Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC ₅₀ value is < 10.0 nM.
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/μg
Expression system	HEK 293 cells
Accession	<u>P09228</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	WSPQEEDRIIEGGYDADLNDERVQRALHFVISEYNKATED EYYRLLRV LRAREQIVGGVNYFFDIEVGRITCKTSQPNLDTCAFHEQPE LQKKQLCSF QYEVWPWEDRMSLVNSRCQEA
Predicted molecular weight	15 kDa including tags
Amino acids	21 to 141
Tags	His tag C-Terminus
Additional sequence information	(AAH62679)

Specifications

Our **Abpromise guarantee** covers the use of **ab180061** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

pH: 7.4

Constituents: 5% Trehalose, 0.3% Tris, 0.88% Sodium chloride

Lyophilized from 0.22 µm filtered solution.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile deionized water to a final concentration of 400 ug/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing.

General Info

Function

Thiol protease inhibitor.

Tissue specificity

Expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level).
Expressed in submandibular gland and parotid gland.

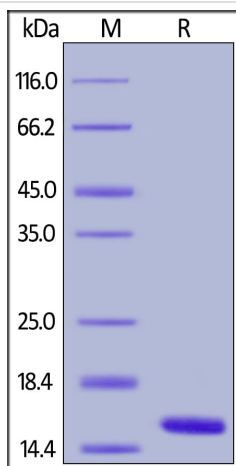
Sequence similarities

Belongs to the cystatin family.

Cellular localization

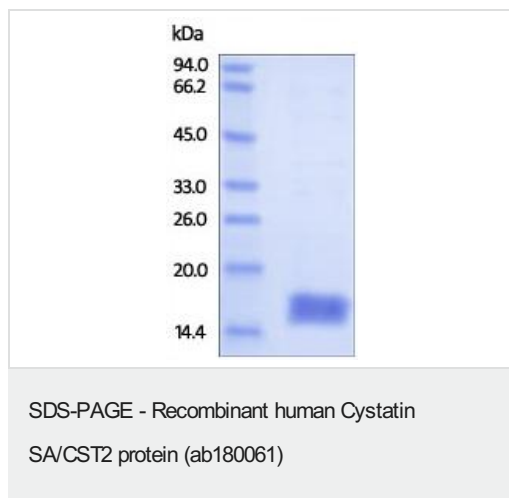
Secreted.

Images



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%.

SDS-PAGE - Recombinant human Cystatin
SA/CST2 protein (ab180061)



SDS-PAGE analysis of ab180061 in reducing conditions. Gel stained overnight with Coomassie Blue. DTT-reduced protein migrates as 15-17 kDa.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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