# Recombinant Human CST4 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CST4-5793H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | CST4 MS Standard C13 and N15-labeled recombinant protein (NP_001890) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells. |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes a type 2 salivary cysteine peptidase inhibitor. The protein is an S-type cystatin, based on its high level of expression in saliva, tears and seminal plasma. The specific role in these fluids is unclear but antibacterial and antiviral activity is present, consistent with a protective function. |
| **Molecular Mass** | 16.2 kDa |
| **AA Sequence** | MARPLCTLLLLMATLAGALASSSKEENRIIPGGIYDADLNDEWVQRALHFAISEYNKA |

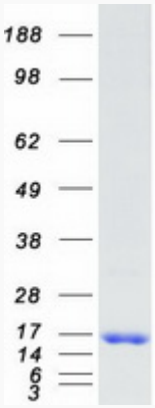
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|---|---|
| | TEDEYYRRPLQVLRAREQTFGGVNYFFDVEVGRTICTKSQPNLDTCAFHEQPELQK KQLCSFEIYEVPWEDRMSLVNSRCQEATRTRPLEQKLISEEDLAANDILDYKDDDDK V |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Stability** | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| **Storage** | Store at -80 centigrade. Avoid repeated freeze-thaw cycles. |
| **Concentration** | 50 μg/mL as determined by BCA |
| **Storage Buffer** | 100 mM glycine, 25 mM Tris-HCl, pH 7.3. |

## GENE INFORMATION

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| **Gene Name** | CST4 cystatin S [ Homo sapiens (human) ] |
| **Official Symbol** | CST4 |
| **Synonyms** | CST4; cystatin S; cystatin-S; cystatin 4; cystatin-4; cystatin-SA-III; salivary acidic protein 1; MGC71923; |
| **Gene ID** | 1472 |
| **mRNA Refseq** | NM_001899 |
| **Protein Refseq** | NP_001890 |
| **MIM** | 123857 |

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| **UniProt ID** | P01036 |
| **SDS-PAGE** |  |



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