

Product datasheet for PH309349

Cystatin S (CST4) (NM_001899) Human Mass Spec Standard

Product data:

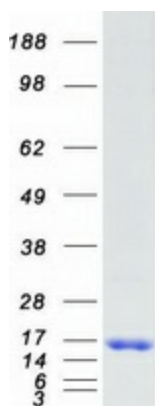
Product Type:	Mass Spec Standards
Description:	CST4 MS Standard C13 and N15-labeled recombinant protein (NP_001890)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209349
Predicted MW:	16.2 kDa
Protein Sequence:	>RC209349 protein sequence Red =Cloning site Green =Tags(s) MARPLCTLLLLMATLAGALASSKEENRIIPGGIYDADLNDEWVQRALHFAISEYNKATEDEYYRRPLQV LRAREQTFGGVNYFFDVEVGRITICTKSQPNLDTCAFHEQPQLQKQQLCSFEIYEVWPEDRMSLVNSRCQE A TR TRPLEQ KL ISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001890
RefSeq Size:	736
RefSeq ORF:	423
Locus ID:	1472
UniProt ID:	P01036
Cytogenetics:	20p11.21



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Summary:

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. [provided by RefSeq, Jul 2008]

Product images:

Coomassie blue staining of purified CST4 protein (Cat# [TP309349]). The protein was produced from HEK293T cells transfected with CST4 cDNA clone (Cat# [RC209349]) using MegaTran 2.0 (Cat# [TT210002]).