

## Product datasheet for PH310730

### Cystatin C (CST3) (NM\_000099) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CST3 MS Standard C13 and N15-labeled recombinant protein (NP_000090)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210730
Predicted MW:	15.8 kDa
Protein Sequence:	>RC210730 protein sequence Red=Cloning site Green=Tags(s)  MAGPLRAPLLLLAILAVALAVSPAAGSSPGKPPRLVGGPMDASVEEEGVRRALDFAVGEYNKASNDMYHS RALQVVRARKQIVAGVNYFLDVELGRTTCTKTQPNLDNCPFHDQPHLKRKAFCSFQIYAVPWQGTMTLSK STCQDA  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<u>NP_000090</u>
RefSeq Size:	929
RefSeq ORF:	438
Synonyms:	ARMD11; HEL-S-2
Locus ID:	1471
UniProt ID:	<u>P01034</u> , <u>A0A0K0K1J1</u>



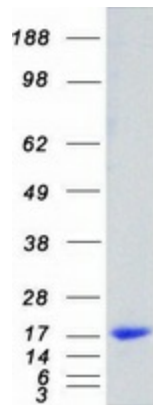
[View online »](#)

**Cytogenetics:** 20p11.21

**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, where they appear to provide protective functions. 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 the most abundant extracellular inhibitor of cysteine proteases, which is found in high concentrations in biological fluids and is expressed in virtually all organs of the body. A mutation in this gene has been associated with amyloid angiopathy. Expression of this protein in vascular wall smooth muscle cells is severely reduced in both atherosclerotic and aneurysmal aortic lesions, establishing its role in vascular disease. In addition, this protein has been shown to have an antimicrobial function, inhibiting the replication of herpes simplex virus. Alternative splicing results in multiple transcript variants encoding a single protein. [provided by RefSeq, Nov 2014]

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

### Product images:



Coomassie blue staining of purified CST3 protein (Cat# [TP310730]). The protein was produced from HEK293T cells transfected with CST3 cDNA clone (Cat# [RC210730]) using MegaTran 2.0 (Cat# [TT210002]).