

Product datasheet for PH303115

Cystatin A (CSTA) (NM_005213) Human Mass Spec Standard

Product data:

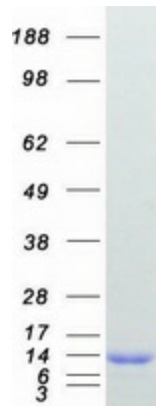
Product Type:	Mass Spec Standards
Description:	CSTA MS Standard C13 and N15-labeled recombinant protein (NP_005204)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203115
Predicted MW:	11 kDa
Protein Sequence:	>RC203115 protein sequence Red=Cloning site Green=Tags(s) MIPGGLSEAKPATPEIQEIVDKVKPQLEEKTNETYGKLEAVQYKTQVVAGTNYIYIKVRAGDNKYMHLKVF KSLPGQNEDLVLTGYQVDKNKDDDELTF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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:	NP_005204
RefSeq Size:	838
RefSeq ORF:	294
Synonyms:	AREI; PSS4; STF1; STFA
Locus ID:	1475
UniProt ID:	P01040
Cytogenetics:	3q21.1



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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 kininogens. This gene encodes a stefin that functions as a cysteine protease inhibitor, forming tight complexes with papain and the cathepsins B, H, and L. The protein is one of the precursor proteins of cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. Stefins have been proposed as prognostic and diagnostic tools for cancer. [provided by RefSeq, Jul 2008]

Product images:

Coomassie blue staining of purified CSTA protein (Cat# [TP303115]). The protein was produced from HEK293T cells transfected with CSTA cDNA clone (Cat# [RC203115]) using MegaTran 2.0 (Cat# [TT210002]).