



## Human CST3 peptide (DAG-P0401)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

#### Antigen 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, 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. Alternative splicing results in multiple transcript variants encoding a single protein. [provided by RefSeq, Dec 2013]

#### Specificity

Expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level). Expressed in various body fluids, such as the cerebrospinal fluid and plasma. Expressed in highest levels in the epididymis, vas deferens, brain, thymus, and ov

#### Purity

70 - 90% by HPLC.

#### Conjugate

Unconjugated

#### Sequence Similarities

Belongs to the cystatin family.

#### Format

Liquid

#### Preservative

None

#### Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

# GENE INFORMATION

Gene Name	<a href="#">CST3 cystatin C [ Homo sapiens (human) ]</a>
Official Symbol	CST3
Synonyms	CST3; cystatin C; ARMD11; cystatin-C; cystatin 3; cystatin-3; gamma-trace; post-gamma-globulin; bA218C14.4 (cystatin C); neuroendocrine basic polypeptide;
Entrez Gene ID	<a href="#">1471</a>
mRNA Refseq	<a href="#">NM_000099.3</a>
Protein Refseq	<a href="#">NP_000090.1</a>
UniProt ID	P01034
Chromosome Location	20p11.21
Pathway	Amyloids, organism-specific biosystem; Disease, organism-specific biosystem; Integrated Pancreatic Cancer Pathway, organism-specific biosystem; Salivary secretion, organism-specific biosystem; Salivary secretion, conserved biosystem;
Function	beta-amyloid binding; cysteine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity; protease binding; protein binding;