

Native Human CST3

Cat. No. CST3-26152TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Full length native protein isolated from urine (purified) (Human).

Species Human

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.

Tissue 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

Form

Lyophilised: Use 100ul of a phosphate buffer, pH>7 containing 0.15 M NaCl to

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reconstitute to 1mg/ml. Single homogenous batch, lyophilised from 0.02 M NH₄HCO₃ may contain traces of buffer salts.

Purity >95% by SDS-PAGE

Storage Store at +4°C.

Sequence Similarities Belongs to the cystatin family.

Full Length Full L.

GENE INFORMATION

Gene Name [CST3 cystatin C \[Homo sapiens \]](#)

Official Symbol [CST3](#)

Synonyms CST3; cystatin C; cystatin C (amyloid angiopathy and cerebral hemorrhage); cystatin-C;

Gene ID [1471](#)

mRNA Refseq [NM_000099](#)

Protein Refseq [NP_000090](#)

MIM [604312](#)

Uniprot ID [P01034](#)

Chromosome 20p11.2

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Location

Pathway

Amyloids, organism-specific biosystem; Salivary secretion, organism-specific biosystem; Salivary secretion, conserved biosystem;

Function

beta-amyloid binding; cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity; protease binding;

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