

Cystatin C in Human Serum Reference Standard

Cat. No. CST3-6H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Each sample consists of lyophilised human serum spiked with cystatin C. It contains the following additives: 4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES), sodium azide, benzamidinium chloride and aprotinin. The material is kept under nitrogen gas in siliconised glass vials.
Species	Human
Description	Cystatin C or cystatin 3 (formerly gamma trace, post-gamma-globulin or neuroendocrine basic polypeptide), a protein encoded by the CST3 gene, is mainly used as a biomarker of kidney function. Recently, it has been studied for its role in predicting new-onset or deteriorating cardiovascular disease.
Usage	The material is primarily intended to be used to calibrate serum-based protein standards and control materials used for the quantification of cystatin C by immunoassay. When the material is used as a calibrant in a particular assay the commutability should be verified for the assay concerned. The entire content of the vial must be reconstituted.
Quality Control Test	Particle enhanced immuno-turbidimetry, particle enhanced immuno-nephelometry and single radial immuno-diffusion
Notes	Avoid swallowing of the material as well as prolonged and repeated contact with skin. Do not discharge the waste into the drain. Each portion of donated blood used in the production of the material has been tested for the presence of HBs antigen, HCV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

antibodies and for HIV1/HIV2 antibodies and found to be negative. However, the product must be handled with adequate care as any material of human origin. It is intended for "in vitro" measurement only.

Storage

Unopened vials should be stored at or below -20 °C. Under the condition that any microbial contamination during the reconstitution procedure has been excluded, the solution of ERM-DA471/IFCC can be used for one week. The reconstituted material should be stored at 2-8 °C. However, the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises, especially of opened vials.

Concentration

Cystatin C: 5.48 mg/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; cystatin 3; cystatin-3; gamma-trace; post-gamma-globulin; bA218C14.4 (cystatin C); neuroendocrine basic polypeptide; ARMD11; MGC117328;

Gene ID

1471

mRNA Refseq

NM_000099

Protein Refseq

NP_000090

MIM

604312

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UniProt ID	P01034
Chromosome Location	20p11.2
Pathway	Amyloids, organism-specific biosystem; Disease, 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;

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