

Human Cystatin SN/CST1 ELISA Kit | CST1 elisa kit

Human Cystatin SN/CST1 PicoKine ELISA Kit

CATALOG #
AAA124999

REACTIVITY
Human

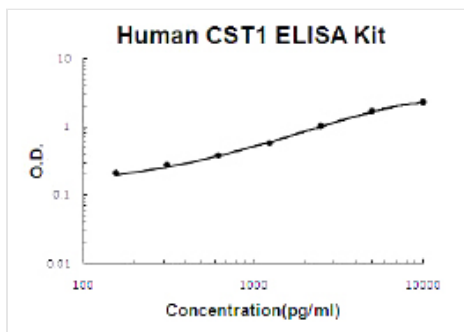
PRODUCT SYNONYMS

Cystatin SN/CST1; Human Cystatin SN/CST1 PicoKine ELISA Kit; Human Cystatin SN/CST1; CST1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CSF3
Sequence Length	141
Samples	Cell Culture Supernates, Serum And Plasma(Heparin, Edta, Citrate)
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<4pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CST1 elisa kit	Principle of the Assay: The Picokine Human CSF3 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human CSF3 with a 96-well strip plate that is pre-coated with antibody specific for CSF3. The detection antibody is a biotinylated antibody specific for CSF3. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human CSF3 with immunogen: Expression system for standard: E.coli; Immunogen sequence: T31-P204. The kit is analytically validated with ready to use reagents. To measure Human CSF3, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Human CSF3 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CSF3 in the sample!!Background/Introduction: Granulocyte colony-stimulating factor(G-CSF) is a member of the CSF family of hormone-like glycoprotein that regulates hematopoietic cell proliferation and differentiation, and it almost exclusively stimulates the colony formation of granulocytes from committed precursor cells in semisolid agar culture. G-CSF is also termed colony stimulating factor-3, and a single gene of which codes for a 177 or 180 amino acid mature protein of molecular weight 19,600. Functionally, it specifically stimulates the proliferation and differentiation of the progenitor cells for granulocytes. The effect of G-CSF on myeloid leukemias is unique among colony stimulating factors in driving the leukemic cells from a self-renewing malignant state to a mature differentiated phenotype with the concomitant loss of tumorigenicity. Besides, it also prevents cardiac remodeling after myocardial infarction by activating the Jak-Stat pathway in cardiomyocytes. The recombinant form of hG-CSF is capable of supporting neutrophil proliferation in a CFU-GM assay as well as early erythroid colonies and mixed colony formation. Human gene coding for G-CSF is assigned to the q21-q22 region of chromosome 17. The standard product used in this kit is recombinant human G-CSF, consisting of 175 amino acids with the molecular mass of 18.8KDa.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	19882251
NCBI GeneID	1469
NCBI Accession #	NP_001889.2
NCBI GenBank Nucleotide #	NM_001898.2
UniProt Accession #	P01037
NCBI Official Full Name	cystatin-SN
NCBI Official Synonym Full Names	cystatin SN
NCBI Official Symbol	CST1
NCBI Protein Information	cystatin-SN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/cystatin-sn-cst1/124999>