

Human Cardiotrophin-1 ELISA Kit | CTF1 elisa kit

Human Cardiotrophin-1 PicoKine ELISA Kit

CATALOG #
AAA45255

REACTIVITY
Human

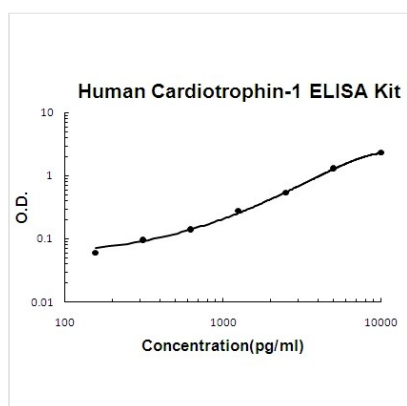
PRODUCT SYNONYMS

Cardiotrophin-1; Human Cardiotrophin-1 PicoKine ELISA Kit; cardiotrophin 1; Cardiophin 1; Cardiophin1; Cardiotrophin I; CardiotrophinI; CT 1; CT-1; CT1; CTF 1; Ctf1; CTF1_HUMAN; CTF1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human CT-1
Sequence Length	201
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	< 10pg/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 between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human Cardiotrophin-1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CTF1 elisa kit	Principle of the assay: human CT-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CT-1 has been precoated onto 96-well plates. Standards(E.coli, S2-A201) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CT-1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human CT-1 amount of sample captured in plate. Background: Cardiotrophin-1 (CT-1) is a member of the family of cytokines that includes leukemia inhibitory factor (LIF), ciliary neurotrophic factor (CNTF), oncostatin M (OSM), interleukin-6 (IL6), and interleukin-11 (IL11). And the CT-1 gene is mapped to 1p21-p13. The human CT-1 protein contains 201 amino acids and shares 80% amino acid identity with the 203-amino acid mouse CT-1 sequence; however, unlike the mouse protein, human CT-1 has 2 rather than 1 cys and has no N-glycosylation site. Despite lacking a signal sequence, secreted CT-1 and mouse CT-1 induce cardiac myocyte hypertrophy in cell culture and bind to both mouse and human LIFR but not to OSMR. Furthermore, A 1.7-kb CT-1 transcript was detected at high levels in heart, skeletal muscle, prostate, and ovary. Low levels were detected in lung, kidney, pancreas, thymus, testis, and small intestine, with little or no expression detected in brain, placenta, spleen, colon, and peripheral blood leukocytes. And it was also observed strong expression in fetal lung and kidney.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2498265
NCBI GeneID	1489
UniProt Accession #	Q16619; Q5U5Y7; A8MVX4
Molecular Weight	21,098 Da
NCBI Official Full Name	Cardiotrophin-1
NCBI Official Synonym Full Names	cardiotrophin 1
NCBI Official Symbol	CTF1
NCBI Official Synonym Symbols	CT1; CT-1
NCBI Protein Information	cardiotrophin-1; cardiophin 1
UniProt Protein Name	Cardiotrophin-1
UniProt Gene Name	CTF1
UniProt Synonym Gene Names	CT-1
UniProt Entry Name	CTF1_HUMAN

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.