

CT-1

Catalog # PVGS1305

Product Information

Primary Accession Species	Q16619 Human
Sequence	Ser2-Ala201
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	
Biological Activity	ED ₅₀
Expression System	CHO
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 µg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	1489
Other Names	Cardiotrophin-1, CT-1, CTF1
Target Background	Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, LIF, CNTF, OSM. CT-1 has since been shown to be a pleiotrophic cytokine with overlapping actions with other IL-6 family members on a variety of cell types. Biologically active human CT-1 is synthesized as a 201 amino acid polypeptide lacking a hydrophobic N-terminal secretion signal sequence. Recombinant Human CT-1 is a 21.1 kDa protein consisting of 200 amino acid residues.

Protein Information

Name	CTF1
Function	Induces cardiac myocyte hypertrophy in vitro. Binds to and activates the ILST/gp130 receptor.

Cellular Location

Secreted.

Tissue Location

Highly expressed in heart, skeletal muscle, prostate and ovary. Lower levels in lung, kidney, pancreas, thymus, testis and small intestine. Little or no expression in brain, placenta, liver, spleen, colon or peripheral blood leukocytes

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.