

## Cardiotrophin-1 Human Recombinant

<b>Item Number</b>	rAP-0402
<b>Synonyms</b>	CTF1, CT1, CT-1, Cardiophin 1, Cardiotrophin-1.
<b>Description</b>	Cardiotrophin-1 Human Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 201 amino acids and having a molecular mass of 21.2kDa. The CTF1 is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	Q16619
<b>Amino Acid Sequence</b>	MSRREGSLED PQTDSVSL PHLAKIRQT HSLAHLTKY AEQLQYVQ LQGDPFGLPS FSPRL- PVAG LSAPAPSHAG LPVHERLRD AAALAALPPL LDAVCRRQAE LNPRAPRLR RLEDAARQAR AL- GAAVEALL AALGAANRGP RAEPAAATAS AASATGVFPA KVLGLRVCGL YREWLSRTEG DLGQLL- PGGS A.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized CTF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CTF-1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	CTF-1 protein was lyophilized from a 0.2µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA. Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized CTF1 in sterile 4mM HCl not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 1.0 ng/ml, corresponding to a specific activity of > 1.0×10 <sup>6</sup> IU/mg.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**