

# Human CTF1 Recombinant Protein



RPPB0139

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## Product Information    Protein Information

**Product SKU:**

RPPB0139

**Accession:**

Q16619

**Host:**

Escherichia Coli.

**Protein description:**

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.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

CTF1, CT1, CT-1, Cardiophin 1, Cardiotrophin-1.

**Formulation:**

CTF-1 protein was lyophilized from a 0.2µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA.

**Purity:**

Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

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.

**Stability:**

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.

**Amino Acid Sequence:**

MSRREGSLED PQTSSVSL PHLEAKIRQT HSLAHLTKY AEQLQYVQ LQGDPFGLPS FSPRLPVAG  
LSAPAPSHAG LPVHERLRD AAALAALPPL LDAVCRRQAE LNPRAPRLR RLEDAARQAR ALGAAVEALL  
AALGAANRGP RAEPAAATAS AASATGVFPA KVLGLRVCGL YREWLSRTEG DLGQLLPGGS A.

**Biological Activity:**

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.