CTF1
Recombinant Human Cardiotrophin-1 (Fc Tag)

Catalog No.	CRH735A-Fc CRH735B-Fc	**Quantity:**	20 µg 100 µg

Alternate Names: Cardiotrophin-1, CT-1

Description: Cardiotrophin-1 (CT-1) is the first HOX11 protein partner identified that plays an important role in hematopoietic precursor cell immortalization. CT-1 was found to protect a gene from silencing when its DNA-binding sites were interposed between the gene and the telomeric extremity, while it did not affect a gene adjacent to the telomere. Protein fusions containing the CT-1 histone-binding domain displayed similar activities, while mutants impaired in their ability to interact with the histone did not. CT-1 has been reported to act as a trophic factor for a few neurons, such as sensory, cholinergic, dopaminergic, motor and cortical neurons. Studies have indicated that CT-1 delays degenerative disease progression in motor neuron disease.

UniProt ID: Q16619

Accession Number: NP_001321.1

Protein Construction: A DNA sequence encoding the human CTF1(Ser2-Ala201) was expressed with the fused Fc region of human IgG1 at the N-terminus.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The rhCTF1/Fc is a disulfide-linked homodimer. The reduced monomer consists of 460 aa with a predicted MW of 49.5 kDa and migrates at ~54 kDa and ~37 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Purity: > 80 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg protein as determined by the LAL method.

Biological Activity: Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 0.015-0.06 µg/mL.

Predicted N-terminal: Glu

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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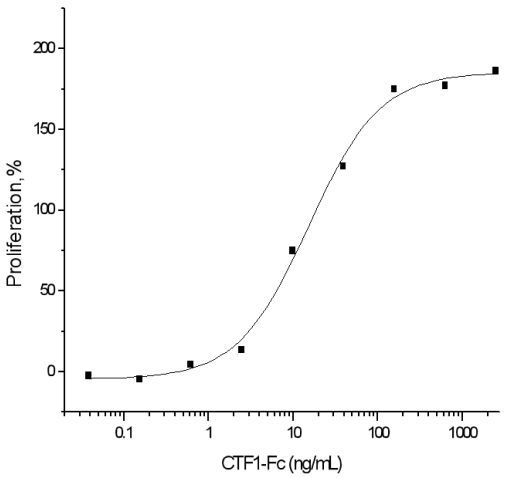
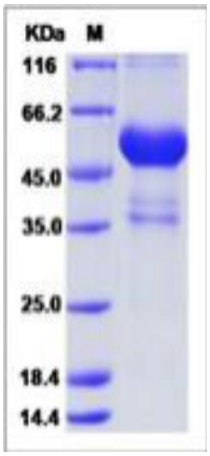


SDS-PAGE



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