

Cardiotrophin-1/CTF1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P72871
Synonyms:	Cardiotrophin-1; CT-1; CTF1
Species:	Human
Source:	HEK293
Accession:	Q16619 (S2-A201)
Gene ID:	1489
Molecular Weight:	54&37 kDa

PROPERTIES

AA Sequence	<p> S R R E G S L E D P Q T D S S V S L L P H L E A K I R Q T H S L A H L L T K Y A E Q L L Q E Y V Q L Q G D P F G L P S F S P P R L P V A G L S A P A P S H A G L P V H E R L R L D A A A L A A L P P L L D A V C R R Q A E L N P R A P R L L R R L E D A A R Q A R A L G A A V E A L L A A L G A A N R G P R A E P P A A T A S A A S A T G V F P A K V L G L R V C G L Y R E W L S R T E G D L G Q L L P G G S A </p>
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells and the ED ₅₀ is typically 0.015-0.06 µg/mL.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>Cardiotrophin-1/CTF1 protein serves as a potent inducer of cardiac myocyte hypertrophy in vitro, underscoring its regulatory role in the enlargement of heart muscle cells. This effect is mediated through its binding to and activation of the ILST/gp130 receptor, indicating a specific molecular pathway through which Cardiotrophin-1 exerts its influence. By engaging with the ILST/gp130 receptor, Cardiotrophin-1 orchestrates signaling events that contribute to the hypertrophic response in cardiac myocytes. This molecular insight into the interaction between Cardiotrophin-1 and its receptor provides a foundational understanding of the mechanisms underlying cardiac hypertrophy and implicates this protein in the</p>
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modulation of heart muscle growth.

Caution: Product has not been fully validated for medical applications. For research use only.

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