

Cardiotrophin-1/CTF1 Protein, Human (HEK293)

Cat. No.:	HY-P72870
Synonyms:	Cardiotrophin-1; CT-1; CTF1
Species:	Human
Source:	HEK293
Accession:	Q16619 (S2-A201)
Gene ID:	1489
Molecular Weight:	Approximately 26.6 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</p> <p>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> <p>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</p> <p>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</p> <p>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>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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 modulation of heart muscle growth.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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