

**Synonym**

CT-1, CT1

**Source**

Human Cardiotrophin 1 Protein, His Tag(CA1-H5243) is expressed from human 293 cells (HEK293). It contains AA Ser 2 - Ala 201 (Accession # [Q16619-1](#)).

Predicted N-terminus: His

**Molecular Characterization**

Poly-his	Cardiotrophin 1(Ser 2 - Ala 201)
	Q16619-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 23 kDa. The protein migrates as 27-30 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM HAC, pH3.0 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

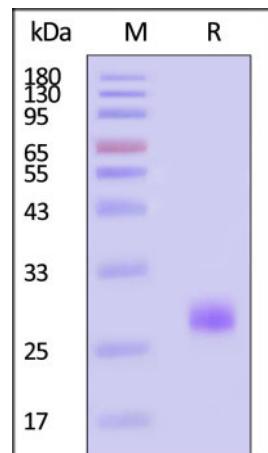
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

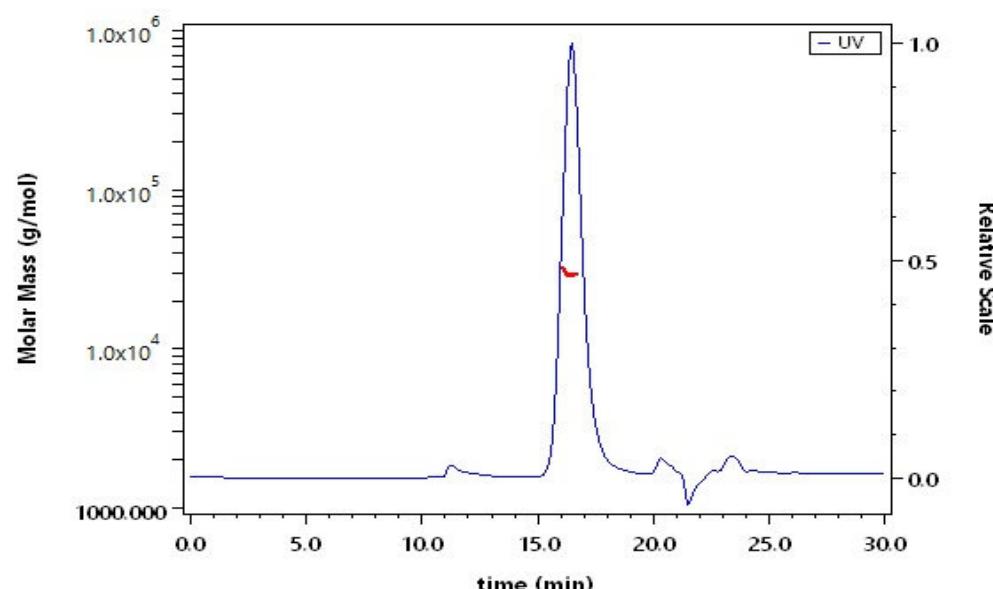
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human Cardiotrophin 1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

**SEC-MALS**

The purity of Human Cardiotrophin 1 Protein, His Tag (Cat. No. CA1-H5243) is more than 90% and the molecular weight of this protein is around 25-35 kDa verified by SEC-MALS.

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## Background

The protein encoded by this gene is a secreted cytokine that induces cardiac myocyte hypertrophy in vitro. It has been shown to bind and activate the ILST/gp130 receptor. Two transcript variants encoding different isoforms have been found for this gene.

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