

## Product datasheet

# Recombinant human CT-1 protein ab9838

### Description

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<b>Product name</b>	Recombinant human CT-1 protein
<b>Purity</b>	> 98 % SDS-PAGE. Sterile filtered Greater than 99% pure by HPLC analyses. Endotoxin level is less than 0.1 ng per g (1EU/g).
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	SRREGSLEDP QTDSSVSLLP HLEAKIRQTH SLAHLTKYA EQLLQEYVQL QGDPFGLPSF SPPRLPVAGL SAPAPSHAGL PVHERLRDLA AALAALPPLL DAVCRRQAEL NPRAPRLRR LEDAARQARA LGAAVEALLA ALGAANRGPR AEPPAATASA ASATGVFPAK VLGLRVCGLY REWLSRTEGD LGQLLPGGSA
<b>Predicted molecular weight</b>	21 kDa

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab9838** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Lyophilized
<b>Additional notes</b>	The ED50, as determined by the dose-dependent proliferation of TF-1 cells is < 1.0 ng/ml, corresponding to a specific activity of > 1 x 10 <sup>6</sup> units/mg. Previously labelled as Cardiotrophin 1.

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -
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80°C. Avoid freeze / thaw cycle. Stable for a few weeks at room temperature.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## Reconstitution

We recommend a quick spin followed by reconstitution in 20 mM Tris, pH 8.0 to a concentration of < 1.0mg/ml.

## General Info

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### Function

Induces cardiac myocyte hypertrophy in vitro. Binds to and activates the ILST/gp130 receptor.

### Tissue specificity

Highly expressed in heart, skeletal muscle, prostate and ovary. Lower levels in lung, kidney, pancreas, thymus, testis and small intestine. Little or no expression in brain, placenta, liver, spleen, colon or peripheral blood leukocytes.

### Sequence similarities

Belongs to the IL-6 superfamily.

### Cellular localization

Secreted.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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