

Human Cardiotrophin-1, CTF1

Synonyms: CTF1, CT1, CT-1, Cardiophin 1, Cardiotrophin-1.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
2 µg	1230.950.002		
10 µg	1230.950.010		
1 mg	1230.950.199		

Please enquire for bulk quantities and other vial sizes

Description

Cardiotrophin-1 Human Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 201 amino acids and having a molecular mass of 21.2kDa.

- **Biological Activity** $\geq 1 \times 10^6$ IU/mg
- **Source** *E. Coli*
- **Purity** $\geq 95\%$ (SDS-PAGE, RP-HPLC)
- **Endotoxin level** $\leq 0.1\text{ng}/\mu\text{g}$ ($\leq 1\text{EU}/\mu\text{g}$)
- **Buffer** CTF-1 protein was lyophilized from a 0.2µm filtered concentrated solution in 30% acetonitrile and 0.1% TFA*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The ED₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 1.0 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^6$ IU/mg.

Reconstitution

It is recommended to reconstitute the lyophilized CTF1 in sterile 4mM HCl not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized CTF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CTF-1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

MSRREGSLED PQTSSSVSL PHLEAKIRQT HSLAHLTKY AEQLLEQYVQ LQGDFFGLPS FSPRLPVAG
 LSAPAPSHAG LPVHERLRD AAALAALPPL LDAVCRRQAE LNPRAPRLLR RLEDAARQAR ALGAAVEALL
 AALGAANRGP RAEPPAATAS AASATGVFPA KVLGLRVCGL YREWLSRTEG DLGQLLPGGS A

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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