

## Cardiotrophin-1 Rat Recombinant

<b>Item Number</b>	rAP-0400
<b>Synonyms</b>	Cardiotrophin-1, CT-1, Ctf1.
<b>Description</b>	Cardiotrophin-1 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 203 amino acids and having a molecular mass of 21.4kDa. The CTF1 Rat is purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	Q63086
<b>Amino Acid Sequence</b>	MSQREGSLED HQTDSFSFL PHLEAKIRQT HNLARLLTKY ADQLLEEYVQ QQGEPFGLPG FSPRL- PLAG LSGPAPSHAG LPVSERLRQD AAALSALPAL LDAVRRRQAE LNPRAPRLLR SLEDAARQVR AL- GAAVETVL AALGAAARGP VPEPVATSAL FTSNSAAGVF SAKVLGLHVC GLYGEWVSRT EGDLGQLVPG GVA.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Cardiotrophin-1 Rat although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CTF1 Rat should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.
<b>Application</b>	
<b>Solubility</b>	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.
<b>Biological Activity</b>	The ED50 as determined by the dose-dependent proliferation of TF-1 cells was found to be < 0.5ng/ml, corresponding to a specific activity of > 2.0×10 <sup>6</sup> units/mg.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**