

**Product:** Ciliary Neurotrophic Factor, Human Recombinant  
**Catalog #:** 11-CNTF  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant Human CNTF produced in E.Coli is a single, non-glycosylated polypeptide chain containing 199 amino acids and having a molecular mass of 22706 Dalton.  
The rHuCNTF is purified by proprietary chromatographic techniques.  
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Phe-Thr-Glu.

**SOURCE:** *E.Coli* Expression System

**PURITY:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of rHuCNTF.

**DIMERS & AGREGATES:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis

**FORM:** Purified, in 5mM sodium Phosphate buffer pH=7.5 and 5mM Sodium Chloride.

**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280 nm using the absorbency value of 1.28 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).  
2. Analysis by RP-HPLC, using a standard solution of CNTF as a Reference Standard.

**CONCENTRATION:** 0.1 mg/ml

**BIOLOGICAL ACTIVITY:** rHuCNTF is fully biologically active when compared to standard.  
The ED50 as determined by the dose-dependant stimulation of TF-1 cells is < 2 ng/ml, corresponding to a Specific Activity of 5 x 10<sup>5</sup> IU/mg.

**STORAGE:** -20°C (aliquot), avoid repeated freeze and thaw cycles

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489 Common Street, Belmont, MA 02478, USA; Email: info@arpl.com or staff@arpl.com  
Phone: 800-832-2611 or 617-489-1120 Fax: 888-832-2613 or 617-489-5120