

Ciliary Neurotrophic Factor Rat Recombinant

Item Number	rAP-2666
Synonyms	HCNTF, CNTF, Ciliary Neurotrophic Factor.
Description	CNTF Recombinant Rat produced in E.Coli is a single, non-glycosylated polypeptide chain containing 200 amino acids and having a molecular mass of 22834 Dalton. The CNTF is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P20294
Amino Acid Sequence	AFAEQTPLTL HRRDLSSRSIWLARKIRSDLTALMESYVKHQGLNKNINLDSVDGVPVASTDRWSEMTE-AERLQENLQAYRTFQGMLTKLLEDQRVHFTPTGDFHQAIHTLMLQVSAFAYQLEELMVLLQKIPENEAD GMPATVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRVISSHQMGISALESHYGAKDKQM.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized CNTF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CNTF should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a concentrated (1mg/ml) solution in water containing 0.025% NaHCO ₃ . Greater than 99.0% as determined by:(a) Analysis by Gel Filtration.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized CNTF in sterile water or 0.4% NaHCO ₃ adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions, preferably in presence of carrier protein.
Biological Activity	Fully biologically active by its ability to phosphorylate STAT3 in several cells lines.
Shipping Format and Condition	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**