Recombinant Human Ciliary Neurotrophic Factor (rDNA derived) Reference standard

Cat. No. CNTF-139H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The CNTF used in this preparation is the human form of the molecule with an N-terminal methionine residue, synthesized in E. coli by recombinant DNA technology.
Species	Human
Source	E.coli
Enzyme Unit	The assigned potency of CNTF is 8000 units per ampoule.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. For all practical purposes, each ampoule contains the same quantity of CNTF. The entire contents of each ampoule should be completely dissolved in a known volume of suitable solvent. It is recommended that, when possible, buffer containing carrier protein should be used to minimize loss by surface adsorption.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

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Stability	Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the label. Accelerated degradation studies have indicated that this material is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.
Storage	The ampoules are shipped at ambient temperature. Unopened ampoules should be stored at -20 °C in the dark. Ampoule contents should be used freshly reconstituted. Some loss of biological activity was observed on freezing and thawing reconstituted solution. The ampoules do not contain bacteriostat and solutions of the ampouled material should not be assumed to be sterile. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	CNTF ciliary neurotrophic factor [Homo sapiens];
Official Symbol	CNTF
Synonyms	CNTF; ciliary neurotrophic factor; HCNTF;
Gene ID	1270
mRNA Refseq	NM_000614
Protein Refseq	NP_000605

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MIM	118945
UniProt ID	P26441
Chromosome Location	11q12
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
Function	ciliary neurotrophic factor receptor binding; cytokine activity; growth factor activity; interleukin-6 receptor binding;

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