CNTF, Human, Recombinant

Cat. No. : PCK117

General Information

Synonyms	Ciliary Neurotrophic Factor;CNTF
Species	Human
Expression host	E.coli
Sequence	Ala2-Met200
Accession	P26441
Mol mass	22.93 kDa
Expiration date	12 months

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, pH 8.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

Ciliary Neurotrophic Factor (CNTF) is a potent survival factor for neurons and oligodendrocytes. CNTF has also been shown to prevent the degeneration of motor axons after axotomy. CNTF is highly conserved across species and exhibits cross-species activities. Human and rat CNTF share approximately 83% homology in their Protein sequence. CNTF is structurally related to IL6, IL11, LIF and OSM. All of these four helix bundle Cytokines share gp130 as a signal transducing subunit in their Receptor complexes. CNTF, like FGF acidic, FGF basic, and PD-ECGF (platelet-Derived endothelial cell Growth Factor), does not possess a signal sequence that would allow secretion of the factor by classical secretion pathways. The mechanism underlying the release of CNTF is unknown.

SDS-PAGE