

Recombinant Human Ciliary Neurotrophic Factor Receptor

Cat. No. CNTFR-1596H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CNTFR encoding the amino acid residues 1-346 was inserted into a baculovirus expression vector and expressed in <i>Sf 21 insect cells</i> .
Species	Human
Source	Sf21 Cells
ProteinLength	1-346 a.a.
Description	Ciliary neurotrophic factor receptor alpha (CNTF R α) is anchored to the cell membrane by a glycosyl-phosphatidylinositol linkage and is expressed exclusively in the nervous system and skeletal muscle. One possible function of this type of linkage is to allow for the regulated release of this receptor component. Potential physiological roles for the soluble CNTF receptor alpha subunit are suggested by its presence in cerebrospinal fluid and by its release from skeletal muscle in response to peripheral nerve injury.
Molecular Weight	The predicted molecular weight of Recombinant Human CNTF sR α is Mr 36 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 52 kDa.
State Of Matter	Lyophilized.
Purity	>97% by SDS Page and analyzed by silver stain.

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Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human CNTF sRα was determined by its ability to enhance hCNTF-dependent TF-1 cell proliferation. The expected ED50 for this effect is typically 0.2 - 0.4 µg/mL in the presence of 20 ng/mL of rhCNTF.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	CNTFR ciliary neurotrophic factor receptor [Homo sapiens]
Synonyms	CNTFR; ciliary neurotrophic factor receptor; MGC1774; CNTFR alpha; ciliary neurotrophic factor receptor; ciliary neurotrophic factor receptor alpha; OTTHUMP00000021270; OTTHUMP00000021271
Gene ID	1271
mRNA Refseq	NM_001842
Protein Refseq	NP_001833
MIM	118946

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UniProt ID	P26992
Chromosome Location	9p13
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	ciliary neurotrophic factor receptor activity; receptor activity; receptor binding

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