# **PRODUCT INFORMATION**

**Expression system** Baculovirus

**Domain** 23-342aa

**UniProt No.** Q08406

NCBI Accession No. NP\_001003929

## **Alternative Names**

Ciliary neurotrophic factor receptor subunit alpha, CNTFR, CNTF receptor subunit alpha, CNTFR-alpha

# **PRODUCT SPECIFICATION**

Molecular Weight 36.9 kDa (328aa)

**Concentration** 0.5mg/ml (determined by absorbance at 280nm)

#### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### Purity

> 90% by SDS-PAGE

**Endotoxin level** < 1 EU per 1ug of protein (determined by LAL method)

**Tag** His-Tag

Application SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

#### Description

Cntfr, also known as ciliary neurotrophic factor receptor subunit alpha, is a member of the type 1 cytokine receptor family. It mediates the biological action of CNTF. CNTF is a polypeptide hormone that supports the survival of neurons of the peripheral sensory, sympathetic, and ciliary ganglia at various stages in their development. CNTFR and its cognate ligand support the survival of neurons. The CNTF receptor complex is most



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closely related to, and shares subunits with the receptor complexes for interleukin-6 and leukemia inhibitory factor. The specificity conferring alpha subunit of the CNTF complex (CNTFR alpha), is extremely well conserved across species, and has a distribution localized predominantly to the nervous system and skeletal muscle. Recombinant rat Cntfr, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

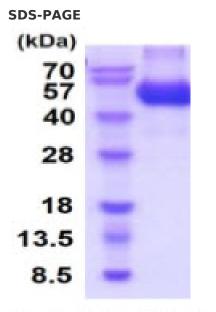
#### **Amino acid Sequence**

QKHSPQEAPH VQYERLGTDV TLPCGTASWD AAVTWRVNGT DLAPDLLNGS QLILRSLELG HSGLYACFHR DSWHLRHQVL LHVGLPPREP VLSCRSNTYP KGFYCSWHLS APTYIPNTFN VTVLHGSKMM VCEKDPALKN RCHIRYMHLF STIKYKVSIS VSNALGHNTT AITFDEFTIV KPDPPENVVA RPVPSNPRRL EVTWQTPSTW PDPESFPLKF FLRYRPLILD QWQHVELSNG TAHTITDAYA GKEYIIQVAA KDNEIGTWSD WSVAAHATPW TEEPRHLTTE AQAPETTTST TSSLAPPPTT KICDPGELSS LEHHHHHH

#### **General References**

Dutt K., et al. (2010) In Vitro Cell Dev Biol Anim. 46:635-646. Clatterbuck RE., et al. (1993) Proc Natl Acad Sci U S A. 15:2222-2226.

## DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

# 15% SDS-PAGE (3ug)

