

Recombinant rat CNTFR alpha protein

Catalog Number: ATGP3474

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

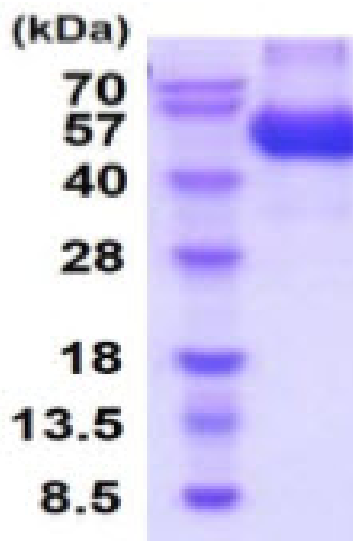
QKHSPQEAPH VQYERLGTDV TLPCGTASWD AAVTWRVNGT DLAPDLLNGS QLILRSLELG HSGLYACFHR DSWHLRHQVL
LHVGLPPREP VLSCRSNTYP KGFYCSWHLS APTYIPNTFN VTLHGSKMM VCEKDPALKN RCHIRYMHLF STIKYKVSIS
VSNALGHNTT AITFDEFTIV KPDPPEVVA RPVPSNPRRL EVTWQTPSTW PDPEFPLKF FLRYRPLILD QWQHVELSNG
TAHTITDAYA GKEYIIQVAA KDNEIGTWSW WSVAAHATPW 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

SDS-PAGE



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

15% SDS-PAGE (3ug)