

Recombinant human CNTFR alpha protein

Catalog Number: ATGP3830

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-342aa

UniProt No.

P26992

NCBI Accession No.

NP_001833

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

36.9 kDa (329aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

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

Purity

> 95% 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 preproprotein, is expressed in glial cells within the central and peripheral nervous systems. It stimulates gene expression, cell survival or differentiation in a variety of neuronal cell types such as sensory, sympathetic, ciliary and motor neurons. This protein has a structure unrelated to the receptors utilized by the nerve growth factor family of neurotrophic molecules, but

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instead is most homologous to the receptor for a cytokine, interleukin-6. Also, it possesses an unusual attachment to the cell membrane through a glycoposphatidylinositol linkage. It activates downstream signaling molecules such as STAT-3 in areas of the hypothalamus which regulate food intake. Recombinant human CNTFR, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

Amino acid Sequence

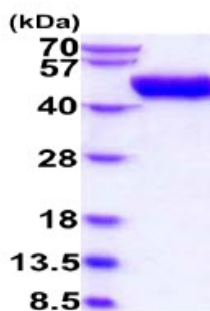
ADPQRHSPQE APHVQYERLG SDVTLPCGTA NWDAAVTWRV NGTDLAPDLL NGSQVLHGL ELGHSGLYAC
FHRDSWHLRH QVLLHVGLPP REVLSCRSN TYPKGFYCSW HLPTPTYIPN TFNVTVLHGS KIMVCEKDPA LKNRCHIRYM
HLFSTIKYKV SISVSNALGH NATAITFDEF TIVKPDPPEN VVARPVPSNP RRLEVTWQTP STWPDPEFP LKFFLRYP
ILDQWQHVEL SDGTAHTITD AYAGKEYIIQ VAAKDNEIGT WSDWSVAHA TPWTEPRHL TTEAQAAETT TSTTSSLAPP
PTTKICDPGE LGSHHHHHH

General References

Davis S., et al. (1991) Science. 253:59-63.
Sleeman MW., et al. (2000) Pharm Acta Helv. 74:265-272

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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