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 glycophosphatidylinositol 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

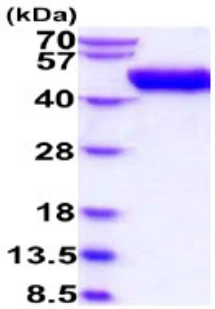
ADPQRHSPQE APHVQYERLG SDVTLPCGTA NWDAAVTWRV NGTDLAPDLL NGSQLVLHGL ELGHSGLYAC FHRDSWHLRH QVLLHVGLPP REPVLSCRSN TYPKGFYCSW HLPTPTYIPN TFNVTVLHGS KIMVCEKDPA LKNRCHIRYM HLFSTIKYKV SISVSNALGH NATAITFDEF TIVKPDPPEN VVARPVPSNP RRLEVTWQTP STWPDPESFP LKFFLRYRPL ILDQWQHVEL SDGTAHTITD AYAGKEYIIQ VAAKDNEIGT WSDWSVAAHA TPWTEEPRHL 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.