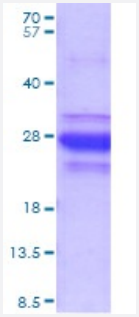
Bioactive Full-Length

CNTF (Human) Recombinant Protein

Catalog # P6941 Size 100 ug

Applications



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

Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human CNTF (NP_000605, 1 - 200 a.a.) full length recombinant protein expressed in *Escherichia coli* expression system.
Host	Escherichia coli
Theoretical MW (kDa)	22.9
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU/ug

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Activity	Human CNTF stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED_{50} range ≤ 500 ng/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue 3 ug SDS-PAGE under reducing condition and visualized by coomassie blue stain.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM Tris-HCl, 1 mM DTT, pH 8.0 (10% glycerol)
Storage Instruction	Store at 4°C for one week. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis

Applications

- SDS-PAGE

Gene Info — CNTF

Entrez GeneID	1270
Protein Accession#	P26441
Gene Name	CNTF
Gene Alias	HCNTF
Gene Description	ciliary neurotrophic factor
Omim ID	118945
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a polypeptide hormone whose actions appear to be restricte d to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in cer tain neuronal populations. The protein is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. A mutation in this gene, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, but this phe notype is not causally related to neurologic disease. A read-through transcript variant composed of ZFP91 and CNTF sequence has been identified, but it is thought to be non-coding. Read-throu gh transcription of ZFP91 and CNTF has also been observed in mouse. [provided by RefSeq

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Other Designations	OTTHUMP00000174731

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Depressive Disorder
- Diabetes Mellitus
- Disease Models
- Eating Disorders
- Edema
- Genetic Predisposition to Disease
- Kidney Failure
- Mental Disorders
- Multiple Sclerosis
- Obesity
- Overweight
- Schizophrenia
- Schizophrenic Psychology
- Weight Gain
- Weight Loss

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