

Datasheet for ABIN5854410
CNTF Protein (AA 1-200) (His tag)



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Overview

Quantity:	50 µg
Target:	CNTF
Protein Characteristics:	AA 1-200
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CNTF protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	MAFAEQT PLTLHRRDLC SRSIWLARKI RSDLTALMES YVKHQGLNKN INLDSVDGVP VASTDRWSEM TEAERLQENL QAYRTFQGML TKLLEDQRVH FTPTEGDFHQ AIHTLMLQVS AFAYQLEELM VLLEQKIPEN EADGMPATVG DGGLFEKKLW GLKVLQELSQ WTVRSIHDLR VISSHQMGIS ALESHYGAKD QKM
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1 µg of protein (determined by LAL method)
Biological Activity Comment:	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range ≤40ng/ml.

Target Details

Target:	CNTF
Alternative Name:	CNTF (CNTF Products)
Background:	CNTF also known as ciliary neurotrophic factor is a survival factor for various neuronal cell types. CNTF is highly conserved across species and exhibits cross-species bioactivity. CNTF is a 25 kDa polypeptide that was originally isolated as a target-derived survival factor of parasympathetic ciliary ganglion neurons. Binding of CNTF to CNTF receptor triggers heterodimerization of gp130 and LIFR, forming an active trimeric receptor complex and activates the downstream signaling pathway. Recombinant rat CNTF, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Molecular Weight:	25.2 kDa (223aa) confirmed by MALDI-TOF
NCBI Accession:	NP_037298
UniProt:	P20294
Pathways:	JAK-STAT Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. In phosphate buffered saline (pH 7.4) containing 10 % glycerol.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.