

Recombinant Rat Cntf Protein, His-tagged

Cat. No. Cntf-374R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat CNTF, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Rat
Source	E.coli
Description	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.
Form	Liquid. In phosphate buffered saline (pH 7.4) containing 10% glycerol.
Molecular Mass	25.2 kDa (223aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMFAEQT PLTLHRRDLC SRSIWLARKI RSDLTALMES YVKHQGLNKN INLDSVDGVP VASTDRWSEM TEAERLQENL QAYRTFQGML TKLLEDQRVH FTPTEGDFHQ AIHTLMLQVS AFAYQLEELM VLLEQKIPEN EADGMPATVG DGGLFEKKLW GLKVLQELSQ WTVRSIHDLR VISSHQMGIS ALESHYGAKD QQM
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)

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Purity	>95% by SDS-PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	Cntf ciliary neurotrophic factor [<i>Rattus norvegicus</i>]
Official Symbol	Cntf
Synonyms	CNTF; ciliary neurotrophic factor; ciliary neurotropic factor;
Gene ID	25707
mRNA Refseq	NM_013166
Protein Refseq	NP_037298
MIM	
UniProt ID	
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
Function	ciliary neurotrophic factor receptor binding; cytokine activity; growth factor activity;

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growth factor activity; interleukin-6 receptor binding; interleukin-6 receptor binding;

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