

AR51974PU-S

Rat CNTF (1-200, His-tag) - Purified

Alternate names:

Ciliary Neurotrophic Factor

Quantity:

50 µg

Concentration:

0.5 mg/ml (determined by bradford assay)

Background:

CNTF also known as ciliary neurotrophic factor is a survival factor for various neural 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.

Uniprot ID:

[P20294](#)

NCBI:

[NP_037298](#)

GeneID:

[25707](#)

Species:

Rat

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS-PAGE

Buffer System: Phosphate buffered saline (pH 7.4) containing 10% glycerol.

Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Description:

Recombinant rat CNTF, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMAFAEQT PLTLHRRDLC SRSLWLARKI RSDLTALMES
YVKHQGLNKN INLDSVDGVP VASTDRWSEM TEAERLQENL QAYRTFQGM LTKLLEDQVRH
FTPTEGDFHQ AIHTLMLQVS AFAYQLEELM VLLEQKIPEN EADGMPATVG DGGLFEKKLW
GLKVLQELSQ WTVRSIHDLR VISSHQMGIS ALESHYGAKD KQM

Biological Activity: Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is less or equal to 40 ng/ml.

Molecular weight: 25.2 kDa (223aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Linker R., et al. (2009) Crit Rev Immunol. 29(1):43-68.

Stahl N., et al. (1994) J Neurobiol. 25(11):1454-66.

Pictures:

