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CNTF Recombinant Protein

CATALOG NUMBER: 40-502

Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	MAFTEHSPLT PHRRDLCSRS IWLARKLRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	The ED50 was determined by the dose - dependent proliferation of human TF - 1 cells is < 2.0 ng/mL, corresponding to a specific activity of > 5 x 10^5 units/mg.

Properties

PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per ug (1EU/ug).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized CNTF recombinant protein is stable for at least 2 years from date of receipt at -20˚C. Reconstituted CNTF is stable for at least 3 months when stored in working aliquots with a carrier protein at -20˚C. As with any protein, exposing CNTF recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info

ALTERNATE NAMES:	HCNTF, Ciliary neurotrophic factor, CNTF
ACCESSION NO.:	NP_000605.1
PROTEIN GI NO.:	4758020

Background

CNTF is a potent neural factor that was originally characterized as a vital factor for the survival of chick ciliary neurons in vitro. CNTF is also important for the survival of other neural cell types including primary sensory neurons, motor neurons, basal forebrain neurons and type 2 astrocytes. CNTF is highly conserved across species and exhibits cross-species bioactivity. Recombinant human CNTF is synthesized as a 199 amino acid polypeptide (22.7 kDa) lacking a hydrophobic N-terminal signal for secretion.

FOR RESEARCH USE ONLY

December 13, 2016