

Recombinant Mouse Cardiotrophin 2

Cat. No. Ctf2-952M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Neuropoietin produced in <i>E. Colli</i> is a 19.8 kDa protein containing 183 amino acid residues.
Species	Mouse
Source	E.coli
Description	Neuropoietin is a newly identified member of the IL-6 cytokine family. Members of this family, including IL-6, IL-11, oncostatin M, leukemia inhibitory factor (LIF), cardiotrophin-1 (CT-1), cardiotrophin-like cytokine, and CNTF, display a four-helix bundle structure, and signal through gp130-containing receptor complexes. Neuropoietin, which is predominantly expressed in neuroepithelia during embryonic life, acts through a receptor complex comprising CNTF receptor-α component, gp 130, and LIF receptor. Like CNTF, it promotes the survival of embryonic motor neurons and could increase the proliferation of neural precursor cells in the presence of EGF and FGF-2. Interestingly, the human Neuropoietin gene has evolved toward a pseudogene, suggesting that the alternative signaling via CNTF is an effective compensatory pathway.
Purity	> 98% by SDS-PAGE.
Endotoxin Level	< 0.1 ng per μ g of Neuropoietin.
Stabilizer	None.

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Formulation	Lyophilized.
Biological Activity	The ED ₅₀ was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is 0.5-0.8 µg/ml.
Stability	The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted Neuropoietin is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze-thaw cycles.
GENE INFORMATION	
Gene Name	Ctf2 cardiotrophin 2 [<i>Mus musculus</i>]
Synonyms	cardiotrophin 2; NP; Gm494; Ctf2; neuropoietin; LOC244218
Gene ID	244218
mRNA Refseq	NM_198858
Protein Refseq	NP_942155
UniProt ID	P83714
Chromosome Location	7 F3
Function	ciliary neurotrophic factor receptor binding; leukemia inhibitory factor receptor binding; cytokine activity