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32-20464: Recombinant Murine Neuropoietin(Discontinued)

Alternative Name : NPO, NP

Description

Source:E.coli 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 formed of a CNTF receptor-Alpha 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 alternative signaling via CNTF is an effective compensatory pathway.Â Recombinant Murine Neuropoietin is a 19.8 kDa protein containing 183 amino acid residues.

Product Info

Amount : 5 µg / 25 µg

Purification : Purity:>= 98% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : MAPISPSEPI GQAYSLALYM QKNTSALLQT YLQHQGSPFS DPGFSAPELQ LSTLPSAAVS FKTWHAMEDA ERLSRAQGAF LALTQHLQLV GDDQSYLNPG SPILLAQLGA ARLRAQGLLG NMAAIMTALG LPIPPEEDTL GFVPFGASAF ERKCRGYIVT REYGHWTDRA VRDLALLKAK YSA

Application Note

TheÃ Â ED_{50}Ã Â was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is 0.5-0.8 Ã ÂµÂg/ml.