

Neuropoietin Murine E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG20105005	(5 µg)
Species: Murine	RBG20105025	(25 µg)
Other names: NPO, NP	RBG20105100	(100 µg)

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 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. Recombinant Murine Neuropoietin is a 19.8 kDa protein containing 183 amino acid residues.

Research topic

Cytokines and chemokines and related molecules

Amino Acid Sequence

MAPISPSEPI GQAYSLALYM QKNTSALLQT YLQHGGSPFS DPGFSAPELQ LSTLPSAAVS FKTWHAMEDA ERLSRAQGAF
LALTQHLQLV GDDQSYLNPG SPILLAQLGA ARLRAQGLLG NMAAIMTALG LPIPPEEDTL GFVPPGASAF ERKCRGYIVT
REYGHWTDRA VRDLALLKAK YSA

Source

E. coli

Purity

98%

Biological Activity

The ED₅₀ was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is 0.5-0.8 µg/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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