

**Recombinant Murine Neuropoietin**  
**Catalog # PBG10330****Specification**

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**Recombinant Murine Neuropoietin - Product Information****Recombinant Murine Neuropoietin - Additional Information****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- $\alpha$  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 the alternative signaling via CNTF is an effective compensatory pathway. Recombinant murine Neuropoietin is a 19.8 kDa protein containing 183 amino acid residues.

**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  $\mu$ g/ml.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $<0.1$  ng/  $\mu$ g of protein ( $<1$  EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Murine Neuropoietin is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Murine Neuropoietin - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Murine Neuropoietin - Images**