

Neuropoietin, murine recombinant protein
NPO, NP
Catalog # PBV10810r**Specification**

Neuropoietin, murine recombinant protein - Product info

Primary Accession [P83714](#)
Calculated MW **19.8 kDa KDa**

Neuropoietin, murine recombinant protein - Additional Info

Gene ID **244218**
Gene Symbol **Ctf2**

Other Names
NPO, NP

Gene Source **Murine**
Source **E. Coli**
Assay&Purity **SDS-PAGE; ≥98%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Sequence **MAPISPSEPI GQAYSLALYM QKNTSALLQT
YLQHQGSPFS DPGFSAPELQ LSTLPSAAVS
FKTWHAMEDA ERLSRAQGAF LALTQHLQLV
GDDQSYLNPG SPILLAQLGA ARLRAQGLLG
NMAAIMTALG LPIPPEEDTL GFVPFGASAF
ERKCRGYIVT REYGHWTDR VRLALLKAK
YSA**

Target/Specificity
Neuropoietin

Application Notes

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.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 2.5 mM Tris, pH 10.2 and 0.5 mM DTT

Neuropoietin, murine recombinant protein - 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](#)

Neuropoietin, murine recombinant protein - Images

Neuropoietin, murine recombinant protein - Background

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, gp130, 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.

Neuropoietin, murine recombinant protein - References

Hasegawa M., et al. Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases.
Derouet D., et al. Proc. Natl. Acad. Sci. U.S.A. 101:4827-4832(2004).