Recombinant Murine Neuropoietin (rMuNeuropoietin)

PrimeGene Technical Data Sheet

Catalog Number:	127-19
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 19.7 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.
Quantity:	5μg/25μg/1000μg
AA Sequence:	APISPSEPIG QAYSLALYMQ KNTSALLQTY LQHQGSPFSD PGFSAPELQL STLPSAAVSF KTWHAMEDAE RLSRAQGAFL ALTQHLQLVG DDQSYLNPGS PILLAQLGAA RLRAQGLLGN MAAIMTALGL PIPPEEDTLG FVPFGASAFE RKCRGYIVTR EYGHWTDRAV RDLALLKAKY SA
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED_{50} as determined by a cell proliferation assay using human TF-1 cells is less than 200 ng/ml, corresponding to a specific activity of > 5000 IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM Tris-HCl, pH8.0, 500 mM NaCl, with 0.5 mM DTT.
Endotoxin:	Less than 1 EU/μg of rMuNeuropoietin as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.

Murine Neuropoietin

Neuropoietin (NP; also known as cardiotrophin-2) is a 19.7 kDa member of the IL-6 family of cytokines. Considered to be the product of a gene duplication event involving cardiotrophin-1 (CT-1), it helps to define a subfamily within the IL-6 family that includes CT-1, CLC and CTNF. Mouse neuropoietin is synthesized as a 204 amino acid (aa) precursor that contains a 22 aa signal sequence and a 182 aa mature segment. The secreted molecule is characterized by the presence of four alpha-helices, typical of hematopoietic superfamily molecules. Mature murine neuropoietin shares 88%, 90% and 95% aa identity to chimpanzee, canine and rat neuropoietin, respectively.

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