

Recombinant Mouse Neuropoietin (Mouse Neuropoietin)

Product Information

Product Name	Cat#	Size
	92536ES08	5 µg
Recombinant Mouse Neuropoietin (Mouse Neuropoietin)	92536ES60	100 µg
	92536ES76	500 µg

Product Description

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 192 aa mature segment. Mature mouse neuropoietin shares 88%, 90% and 95% aa identity to chimpanzee, canine and rat neuropoietin, respectively. NP will mediate motor neuron survival, and appears to be selectively expressed in the embryo by tissues involved with nervous system development.

Product Properties

Synonyms	Ctf2, CTF2P, Gm494, Neuropoietin, NP
Accession	P83714
GeneID	244218
Source	E.coli-derived mouse Neuropoietin, Ala33-Ala204.
Molecular Weight	Approximately 19.7 kDa.
AA Sequence	APISPSEPIG QAYSLALYMQ KNTSALLQTY LQHQGSPFSD PGFSAPELQL STLPSAAVSF KTWHAMEDAE RLSRAQGAFI ALTQHLQLVG DDQSYLNPGS PILLAQLGAA RLRAQGLLGN MAAIMTALGL PIPPEEDTLG FVPFGASAFE RKCRCGYIVTR EYGHWTDRAV RDLALLKAKY SA
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
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. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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 and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!