

Recombinant Mouse Ctf2 protein

Cat. No. Ctf2-2068M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ctf2 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	182
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 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.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM Tris-HCl, pH8.0, 500 mM NaCl, with 0.5 mM DTT.
Bio-activity	Fully biologically active when compared to standard. The ED50 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.

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Molecular Mass	Approximately 19.7 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.
AA Sequence	APISPSEPIGQAYSLALYMQKNTSALLQTYLQHQGSPFSDPGFSAPELQLSTLP SAAVSFKTWHAMEDAERLSRAQGAFLALTQHLQLVGDDQSYLNPGSPILLAQLGAARLR AQGLLGNMAAIMTALGLPIPPEEDTLGFVPFGASAFERKCRGYIVTREYGHWTDR AVRDLALLKAKYSA
Endotoxin	Less than 1 EU/μg of rMuNeuropoietin as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Ctf2
Official Symbol	Ctf2
Synonyms	CTF2; cardiotrophin 2; cardiotrophin-2; CT-2; neuropoietin; NP; Gm494;

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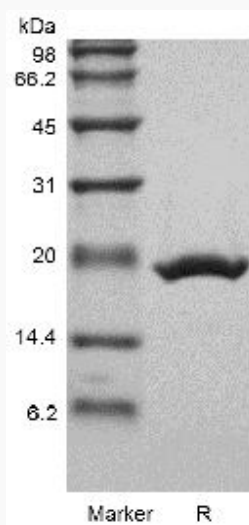
Gene ID 244218

mRNA Refseq NM_198858

Protein Refseq NP_942155

UniProt ID P83714

**SDS-PAGE of Ctf2-
2068M**



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