

## Recombinant Mouse Ctf2 protein

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Ctf2 protein was expressed in Escherichia coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 182                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Lyophilized from a 0.2µm filtered concentrated solution in 20 mM Tris-HCl, pH8.0, 500 mM NaCl, with 0.5 mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Bio-activity</b>     | 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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|                       |                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | Approximately 19.7 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>    | APISPSEPIGQAYSLALYMQKNTSALLQTYLQHQGSPFSDPGFSAPELQLSTLP<br>SAAVSFKTWHAMEDAERLSRAQGAFLALTQHLQLVGDDQSYLNPGSPILLAQLGAARLR<br>AQGLLGNNMAAIMTALGLPIPPEEDTLGFVPFGASAFERKCRGYIVTREYGHWTDR<br>AVRDLALLKAKYSA                                                                                                                                                                                         |
| <b>Endotoxin</b>      | Less than 1 EU/μg of rMuNeuropoietin as determined by LAL method.                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>         | >98% by SDS-PAGE and HPLC analysis.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>        | 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.                                                                                             |
| <b>Reconstitution</b> | 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

|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| <b>Gene Name</b>       | Ctf2                                                                   |
| <b>Official Symbol</b> | Ctf2                                                                   |
| <b>Synonyms</b>        | CTF2; cardiotrophin 2; cardiotrophin-2; CT-2; neuropoietin; NP; Gm494; |

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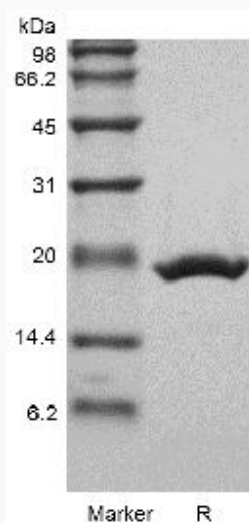
Gene ID 244218

mRNA Refseq NM\_198858

Protein Refseq NP\_942155

UniProt ID P83714

SDS-PAGE of Ctf2-  
2068M



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