

# Active Recombinant Mouse CNTF Protein, His-tagged

**Cat. No.** CNTF-995M    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant mouse CNTF (NP_740756.1) (Ala2-Met198) was expressed with a polyhistidine tag at the N-terminus.                                                                                                                                                    |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                                                           |
| <b>Source</b>               | E.coli                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>        | 2-198 a.a.                                                                                                                                                                                                                                                      |
| <b>Predicted N Terminal</b> | His                                                                                                                                                                                                                                                             |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                                                                                                                             |
| <b>Bio-activity</b>         | 1. Measured by its binding ability in a functional ELISA. Immobilized mouse CNTF at 10 µg/ml (100 µl/well) can bind biotinylated rat CNTFR-His. The EC50 of biotinylated rat CNTFR-His is 5-12 ng/ml.2. Measured in a cell proliferation assay using TF-1 human |
| <b>Molecular Mass</b>       | The recombinant mouse CNTF consists of 215 amino acids and predicts a molecular mass of 24.7 KDa. It migrates as an approximately 25 KDa band in SDS-PAGE under reducing conditions.                                                                            |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                 |
| <b>Purity</b>               | >95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                                                                                                       |
| <b>Storage</b>          | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                                       |
| <b>Reconstitution</b>   | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                  |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>        | Cntf ciliary neurotrophic factor [ Mus musculus ]                                                                                                                                                                                                               |
| <b>Official Symbol</b>  | CNTF                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>         | CNTF; ciliary neurotrophic factor; AI429687; MGC41235;                                                                                                                                                                                                          |
| <b>Gene ID</b>          | 12803                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>      | NM_170786                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>   | NP_740756                                                                                                                                                                                                                                                       |
| <b>MIM</b>              |                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>       |                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>          | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT |
| <b>Function</b>         | ciliary neurotrophic factor receptor binding; cytokine activity; growth factor activity;                                                                                                                                                                        |

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interleukin-6 receptor binding;

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