

Active Recombinant Mouse CNTF Protein, His-tagged

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

SPECIFICATION

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| Product Overview | Recombinant mouse CNTF (NP_740756.1) (Ala2-Met198) was expressed with a polyhistidine tag at the N-terminus. |
| Species | Mouse |
| Source | E.coli |
| ProteinLength | 2-198 a.a. |
| Predicted N Terminal | His |
| Form | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol. |
| Bio-activity | 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 |
| Molecular Mass | 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. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Purity | >95 % as determined by SDS-PAGE. |

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| Stability | Samples are stable for up to twelve months from date of receipt at -70°C. |
| Storage | 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. |
| Reconstitution | 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. |
| GENE INFORMATION | |
| Gene Name | Cntf ciliary neurotrophic factor [Mus musculus] |
| Official Symbol | CNTF |
| Synonyms | CNTF; ciliary neurotrophic factor; AI429687; MGC41235; |
| Gene ID | 12803 |
| mRNA Refseq | NM_170786 |
| Protein Refseq | NP_740756 |
| MIM | |
| UniProt ID | |
| Pathway | 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 |
| Function | ciliary neurotrophic factor receptor binding; cytokine activity; growth factor activity; |

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interleukin-6 receptor binding;

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