

Mouse CNTF/Ciliary Neurotrophic Factor (His Tag) recombinant protein



Catalog Number: 502341

General Information

Protein Construction

A DNA sequence encoding the mouse CNTF (NP_740756.1) (Ala2-Met198) was expressed with a polyhistidine tag at the N-terminus.

Organism

Mouse

Expression Host

E. coli

QC Testing

Activity

1. Measured by its binding ability in a functional ELISA. Immobilized mouse CNTF (cat:502341) at 10 µg/ml (100 µl/well) can bind biotinylated rat CNTFR-His (Cat:501299). The EC_{50} of biotinylated rat CNTFR-His (Cat:501299) is 5-12 ng/ml.
2. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED_{50} for this effect is typically 0.1-0.5 µg/mL.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

Please contact us for more information.

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

His

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.

Formulation

Lyophilized from sterile PBS, pH 7.4.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

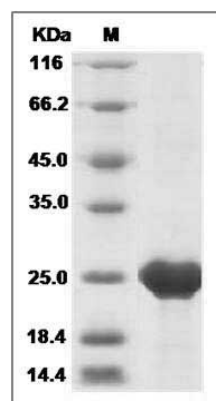
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Mouse CNTF / Ciliary Neurotrophic Factor Protein (His Tag) SDS-PAGE