CNTF/AI429687, Mouse, Recombinant

PCK304

AI429687

Mouse

E.coli

MAFAEQSPLTLHRRDLCSRSIWLARKIRSDLTALMESYVKHQGLNKNISLDS
VDGVPVASTDRWSEMTEAERLQENLQAYRTFQGMLTKLLEDQRVHFTPTE
GDFHQAIHTLTLQVSAFAYQLEELMALLEQKVPEKEADGMPVTIGDGGLFE
KKLWGLKVLQELSQWTVRSIHDLRVISSHHMGISAHESHYGAKQM with
polyhistidine tag at the C-terminus.

P51642.1

23.40 kDa

His-tag at the C-terminus

Measure by its ability to induce proliferation in TF-1 cells. The ED50 for this effect
is <10 ng/mL. The specific activity of recombinant mouse CNTF is > 1 x 10^5
IU/mg.

>98% as determined by SDS-PAGE. Ni-NTA chromatography

<0.1 EU per 1 μg of the protein by the LAL method.

Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution,
store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier
protein or stabilizer (e.g.0.1%BSA,10%FBS,5%HSA or 5% trehalose solution),
protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.

Ambient temperature or ice pack.

The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH
7.4.

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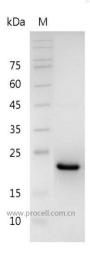:   858   C4
Rev.V1.0

It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL.Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

The ciliary neurotrophic factor is a protein that in humans is encoded by the CNTF gene. It is a hypothalamic neuropeptide that is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. CNTF has also been shown to be expressed by cells on the bone surface and to reduce the activity of bone-forming cells (osteoblasts).

SDS-PAGE

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