CNTF/AI429687, Mouse, Recombinant

Cat. No. : PCK304

General Information

Synonyms	AI429687
Species	Mouse
Expression host	E.coli
Sequence	MAFAEQSPLTLHRRDLCSRSIWLARKIRSDLTALMESYVKHQGLNKNISLDSVDGVPVASTDR WSEMTEAERLQENLQAYRTFQGMLTKLLEDQRVHFTPTEGDFHQAIHTLTLQVSAFAYQLEEL MALLEQKVPEKEADGMPVTIGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRVISSHHMGISAH ESHYGAKQM with polyhistidine tag at the C-terminus.
Accession	P51642.1
Tag	His-tag at the C-terminus
Mol mass	23.40 kDa
Expiration date	12 months
Bio activity	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 × 10^5 IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	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.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	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.

Background

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