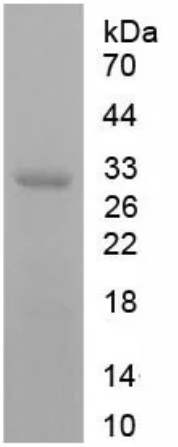
Active Ciliary Neurotrophic Factor (CNTF)

Catalog#:PEH12020

概述（Summary）

别称（Alternative Names）	HCNTF
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ala2-Met200】
Accession #	P26441
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	26.5 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	CNTF is a survival factor for various neuronal cell types. Seems to prevent the degeneration of motor axons after axotomy.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

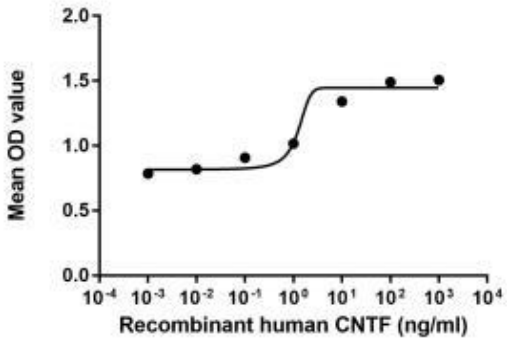


Figure 2. The dose-effect curve of CNTF on SK-N-SH cell

Ciliary Neurotrophic Factor (CNTF) is a common extracellular polypeptide hormone who has neuroprotective effects on a variety of central and also peripheral nervous system neurons. It promotes differentiation and maturation of oligodendrocyte precursor cells to oligodendrocytes under in vitro conditions and thus improves remyelination. In addition, CNTF can also increase the survival of mature oligodendrocytes. To test the effect of CNTF on cell proliferation of SK-N-SH , SK-N-SH cells were seeded into triplicate wells of 96-well plates at a density of 5, 000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of CNTF. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate， then measure the absorbance at 450 nm using a microplate reader after incubating the plate for 1-4 hours at 37 °C .Cell proliferation of SK-N-SH cells after incubation with CNTF for 72h observed by inverted microscope was shown in Figure 1. The dose-effect curve of CNTF was shown in Figure2. It was obvious that CNTF significantly promoted cell proliferation of SK-N-SH cells. The ED50 for this effect is typically 4.685-83.37ng/ml.

注意事项（Note）

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