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Product Datasheet

Human NGF protein, His tag (active), Unconjugated GTX00097-PRO

Artikelname	Human NGF protein, His tag (active), Unconjugated
Artikelnummer	GTX00097-PRO
Hersteller Artikelnummer	GTX00097-pro
Alternativnummer	GTX00097-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	4803
UniProt	P01138
Puffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Glu19~Arg121+DDDDK+Ser122~Arg239 (NP_002497.2)

Anwendungsbeschreibung

Nerve growth factor (NGF) is a neurotrophic factor and neuropeptide primarily involved in the regulation of growth, maintenance, proliferation, and survival of certain target neurons. As reported, when the pheochromocytoma cell line PC12 is exposed to nerve growth factor (NGF), the cells respond over a period of a week by ceasing cell division and extending neurites (Greene and Tischler, 1976). The cells were grown in HamSF12K containing 5% fetal calf serum and 10% horse serum on polylysine or collagen coated plates. When cells reached log phase growth, fresh medium was added together with 10 ng/ml of NGF, then cells were observed by inverted microscope. NGF is also involved in pathways besides those regulating the life cycle of neurons. Besides, Alpha-2-Macroglobulin (a2M) has been identified as an interactor of NGF, thus a binding ELISA assay was conducted to detect the interaction of recombinant human NGF and recombinant human a2M. Briefly, NGF were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to a2M-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-NGF pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of NGF and a2M was in a dose dependent manner.