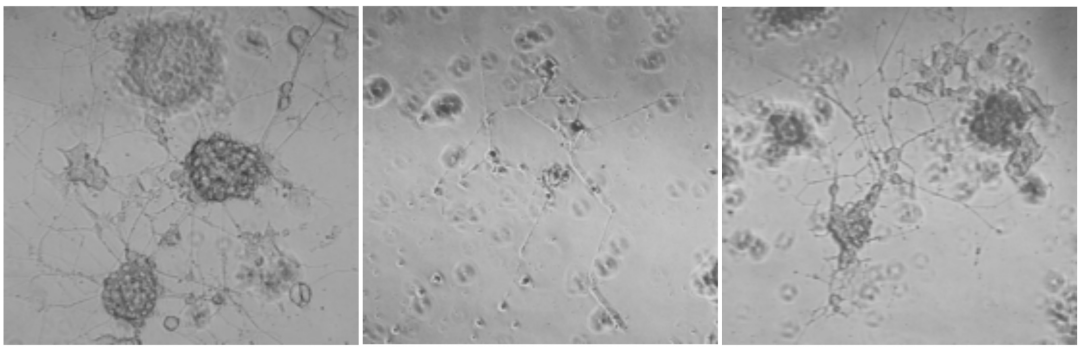
Product Info

PRODUCT NAME	Nerve growth factor (2.5S), Mouse, Purified Native Protein
PRODUCT DESCRIPTION	Mouse NGF (2.5S) was isolated from mouse submaxillary glands by method of Mobley et al (1976) and is a form of beta-NGF that has identical biological properties. NGF is known to regulate the survival and development of certain sympathetic and sensory neurons. It is a dimer with 2 identical polypeptide chains and dimeric molecular weight of approximately 26,500 Da. Isolation and purification of NGF from mouse submaxillary glands yields preparations of NGF (2.5S) with identical biological activity but with cleavages at the amino terminus (with the loss of 8 amino acids) and/or at the carboxy-terminus (with the loss of arginine). These preparations are named 2.5 NGF (see reference below).
CATALOG NUMBER(S)	PE-019-25, PE-019-100, PE-019-500
UNIT SIZE(S)	25 µg, 100 µg, 500 µg
BATCH NUMBER	Please see item label.
APPLICATION(S)	Cell Culture, ELISA, WB
APPLICATION DETAILS	Stimulates neurite outgrowth in rat PC12 cells
TARGET	Nerve growth factor, beta (Beta-NGF)
ALTERNATIVE NAMES	mouse NGF; beta NGF
UNIPROT NUMBER AND NAME	P01139 (NGF_MOUSE)
TARGET HOST SPECIES	Mouse
PRODUCED IN	Native
BIOLOGICAL ACTIVITY	Stimulates neurite outgrowth in rat PC12 cells
FORMAT	Lyophilized from PBS, pH 7.4 without preservatives.
RECONSTITUTION INSTRUCTIONS	Reconstitute with sterile-filtered, ultrapure water to a concentration of 1 mg/mL.
PURITY %	> 90%
PURITY DESCRIPTION	Greater than 90% (as determined by SDS electrophoresis)
STORAGE INSTRUCTIONS	Store lyophilized protein at 2-8°C. After reconstitution, store at 2-8°C short term. Store long-term at -20°C to -80°C. Avoid repeated freezing and thawing. See expiration date for shelf-life estimates, actual times may vary depending upon experimental conditions and laboratory handling.
EXPIRATION DATE	12 months after date of receipt for lyophilized material. Reconstituted material, 5 days at 4C, 30 days -20°C, 60 days -70°C for highest activity Avoid repeated freezing and thawing. Use insulated storage containers for best results.

MAIN IMAGE	
MAIN IMAGE CAPTION	NGF-induced differentiation of PC12 cells in culture. PC12 cells were plated on poly-lysine-coated coverslips and treated with 75 ng/mL native mouse NGF for 19 days. Cells start to differentiate after 6 days, forming a dense neurite network. Images were taken with a light microscope at 10X magnification.
ADDITIONAL IMAGES STATEMENT	Please refer to the Biosensis website for additional product images.
REFERENCES STATEMENT	Please refer to our website for product-specific references.
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