

NT-4

Catalog # PVGS1193

Product Information

Primary Accession P34130 Species Human

Sequence Gly81-Ala210, expressed with an N-terminal Met

Purity > 95% as analyzed by SDS-PAGE

> 95% as analyzed by HPLC

Endotoxin Level

Expression System E. coli

Theoretical Molecular Weight 28.1 kDa, a noncovalently linked homodimer of two 14.0 kDa polypeptide

monomers.

Formulation Lyophilized after extensive dialysis against 50 mM acetic acid.

Reconstitution It is recommended that this vial be briefly centrifuged prior to opening to

bring the contents to the bottom. Reconstitute the lyophilized powder in 50

mM acetic acid or ddH₂O up to 50 ☐g/ml.

Storage & Stability Upon receiving, this product remains stable for up to 6 months at lower than

-70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw

cycles.

Additional Information

Gene ID 4909

Other Names Neurotrophin-4, NT-4, Neurotrophin-5, NT-5, Neutrophic factor 4, NTF4, NTF5

Target Background Neurotrophin-4 (NT-4), also known as NT-5, is a neurotrophic factor

structurally related to β -NGF, BDNF, and NT-3. Human NT-4 shares 48 - 52% aa sequence identity with human β -NGF, BDNF, and NT-3. Neurotrophins have six conserved cysteine residues that are involved in the formation of three disulfide bonds. NT-4 is expressed highest levels in prostate, lower levels in thymus, placenta, and skeletal muscle. NT-4 binds and induces receptor dimerization and activation of TrkB. NT-4 can signal through TrkB receptors and promotes the survival of peripheral sensory sympathetic neurons.

Protein Information

Name NTF4

Synonyms NTF5

Function Target-derived survival factor for peripheral sensory sympathetic neurons

(PubMed: <u>1742028</u>). May promote ameloblast differentiation and subsequent

reduction in proliferation of ameloblasts (By similarity).

Cellular Location Secreted.

Tissue Location Highest levels in prostate, lower levels in thymus, placenta, and skeletal

muscle. Expressed in embryonic and adult tissues

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.