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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 ddH_2O 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:1742028). 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