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NT-4

Catalog # PVGS1326

Specification

NT-4 - Product Information

Primary Accession Q80VU4

Species
Mouse

Sequence
Gly80-Ala209, expressed with an N-terminal Met

Purity
> 95% as analyzed by SDS-PAGE

Endotoxin Level
< 0.2 EU/ µg of protein by gel clotting method

Biological Activity
ED₅₀ < 1.0 µg/ml, measured by a cell proliferation assay using C6 cells, corresponding to a specific activity of > 1.0 × 10³ units/mg.

Expression System
E. coli

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 100 µg/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.

NT-4 - Additional Information

Gene ID 78405

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.

NT-4 - Protein Information

Name Ntf4

Synonyms Ntf5

Function
Target-derived survival factor for peripheral sensory sympathetic neurons (By similarity). May promote ameloblast differentiation and subsequent reduction in proliferation of ameloblasts (PubMed:27015268).

Cellular Location
Secreted {ECO:0000250|UniProtKB:P34130}.

NT-4 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NT-4 - Images