

Recombinant Human NTF4 protein

Cat. No. NTF4-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NTF4 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	131
Description	NT-4 also named as NT-5 is a neuronal and epithelial grow factor belongs to the NGF-beta family. The NT-4 precursor is consisted of a 24 a.a. signal peptide, a 56 a.a. propertied and 130 a.a. NT-4. The mature protein has six Cys amino acid residues and has the relative structure with NT-3, BDNF (sharing about 48 % - 52 % sequence identity). Additionally, it shares 91 % and 95 % a.a. sequence identity with mouse and rat NT-4. NT-4 is mainly expressed in prostate and has low level thymus, placenta, and skeletal muscle. It can binding with the LNGFR and trkB receptors and plays a crucial role in the regulation of survival and the maintenance of peripheral sensory sympathetic neurons. Defect of NT-4 may cause primary open angle glaucoma type 1O.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 5.5.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures is less than 50 ng/ml, corresponding to a specific activity of > 2.0 ×

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	10 ⁴ IU/mg.
Molecular Mass	Approximately 28.1 kDa, a noncovalently linked homodimer of two 14.0 kDa polypeptide monomers (262 total amino acid residues).
AA Sequence	MGVSETAPASRRGELAVCDAVSGWVTDRTAVDLRGREVEVLGEVPAAGGSPLRQ YFFETRCKADNAEEGGPGAGGGGCRGVDRRHVVSECKAKQSYVRALTADAQGRV GWRWIRIDTACVCTLLSRTGRA
Endotoxin	Less than 1 EU/μg of rHuNT-4 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	NTF4
Official Symbol	NTF4
Synonyms	NTF4; neurotrophin 4; neurotrophin 5 (neurotrophin 4/5) , NTF5; neurotrophin-4;

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GLC10; neurotrophic factor 4; NT 4/5; neurotrophin-5; neurotrophic factor 4; neurotrophic factor 5; neurotrophin 5 (neurotrophin 4/5); NT4; NT5; NT-4; NT-5; NTF5; GLC10; NT-4/5;

Gene ID 4909

mRNA Refseq NM_006179

Protein Refseq NP_006170

MIM 162662

UniProt ID P34130

SDS-PAGE of NTF4-16H

