

TECHNICAL DATA SHEET

Recombinant Human NT-4 (Carrier-free)

Catalog Number: 21-7078

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human NT-4 (Carrier-free)

DESCRIPTION

NT-4 (Neurotrophin-4) is a member of the NGF family of neurotrophins that is comprised of at least four proteins including NGF, BDNF, NT-3, and NT-4/5. Neurotrophins are critical to the development of the central and peripheral nervous system and they play important roles in injury induced neuron regeneration. NT-3 is expressed in the prostate, thymus, placenta and skeletal muscle and promotes the survival of peripheral sensory sympathetic neurons. NT-4 is a secreted protein that primarily signals through the LNGFR and trkB receptors.

MOLECULAR MASS

Recombinant human NT-4 is a noncovalently linked homodimer, of two 14.0 kDa polypeptide monomers (260 total amino acid residues).

AMINO ACID SEQUENCE

GVSETAPASR RGELAVCDAV SGWVTDRTA VDLRGREVEV LGEVPAAGGS PLRQYFFETR CKADNAEEGG PGAGGGGCRG
VDRRHVVSEC KAKQSYVRAL TADAQGRVGV RWIRIDTACV CTLLSRTGRA

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

Determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures was found to be in the range of 20-50 ng/ml.

RESEARCH AREAS

Diabetes / Weight Regulation; Neurobiology; Stem Cells & Differentiation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Snider WD. 1994. Cell. 77: 627-638. Ibanez CF. 1996. Neurochem Res. 21(7): 787-793. Barbacid M. 1994. J Neurobiol. 25(11): 1386-1403.

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