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DATASHEET

Recombinant human NT-4 protein

Product overview

Name Recombinant human NT-4 protein

Cat No HB8843 Species of origin human

Alternative names Recombinant Human Neurotrophin-4, NT4, NT5, NTF5, NT-4/5, NTF4, Neurotrophin-4, Neutrophic

factor 4, Neurotrophin-5, NT-5.

Purity >97%

Description Recombinant mouse Neurotrophin-4 protein

Biological Data

Application notes "20-50 ng/ml (determined dose-dependent induction of choline acetyl transferase activity in rat basal

forebrain primary septal cell cultures)

Solubility & Handling

Solubility overview To make a working stock solution, add deionized water to make a solution (0.5mg/mL) and allow the

lyophilized material to dissolve. Filter the product using an appropriate sterile filter before using it in cell

culture

Solutions should be made in sterile deionized water (not less than 100 μg/ml). This solution can then be further diluted with other aqueous solutions.

• Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C.

For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions.
Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

UniProt ID P34130 Source E. Coli.

Appearance White lyophilized powder (sterile filtered & freeze-dried)

Formulation Lyophilized from a solution (1mg/ml) in water containing phosphate buffer (20mM, pH7.4) and NaCl

(150mM)

References

A new role for neurotrophins: involvement of brain-derived neurotrophic factor and neurotrophin-4 in hair cycle control

Botchkarev VA et al (1999) FASEB J 13(2) **PubMedID**9973328

NT-4 protein is localized in neuronal cells in the brain stem as well as the dorsal root ganglion of embryonic and adult rats

Katoh-Semba R *et al* (2003) J Neurochem 86(3) **PubMedID** 12859679

Neurotrophin-4/5 (NT-4/5) and brain-derived neurotrophic factor (BDNF) act at later stages of cerebellar granule cell differentiation

Gao WQ *et al* (1995) J Neurosci 15(4) **PubMedID** 7722620