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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

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

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

Handling \bullet Solutions should be made in sterile deionized water (not less than 100 $\mu g/ml$). 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.

Important 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.

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

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**

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

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