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## DATASHEET

### Recombinant human NT-4 protein

#### Product overview

<b>Name</b>	Recombinant human NT-4 protein
<b>Cat No</b>	HB8843
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Neurotrophin-4, NT4, NT5, NTF5, NT-4/5, NTF4, Neurotrophin-4, Neurotrophic factor 4, Neurotrophin-5, NT-5.
<b>Purity</b>	>97%
<b>Description</b>	Recombinant mouse Neurotrophin-4 protein

#### Biological Data

<b>Application notes</b>	~20-50 ng/ml (determined dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures)
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#### Solubility & Handling

<b>Solubility overview</b>	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
<b>Handling</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• 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.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

#### Chemical Data

<b>UniProt ID</b>	P34130
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	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

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