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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
Handling	• 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.
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.
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