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## DATASHEET

### Recombinant mouse NT-3 protein

#### Product overview

<b>Name</b>	Recombinant mouse NT-3 protein
<b>Cat No</b>	HB9400
<b>Species of origin</b>	mouse
<b>Alternative names</b>	Recombinant Mouse Neurotrophin-3, Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF, NT-3, Neurotrophin-3, Ntf3, Ntf-3, AI316846, AI835689, Nt3.
<b>Purity</b>	>97%
<b>Description</b>	Recombinant mouse Neurotrophin-3 protein

#### Biological Data

<b>Application notes</b>	The $ED_{50}$ = ~ 1-10 ng/ml (determined by the dose-dependent proliferation of BaF3 cells transfected with TrkB receptor), corresponding to a specific activity of 100,000-1,000,000 units/mg
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#### Solubility & Handling

<b>Storage instructions</b>	-20°C
<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration > 100µg/ml, which can then be diluted to make a working solution
<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>	P20181
<b>Molecular Weight</b>	27.5
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from 0.02% TFA

#### References

##### Neurotrophin-3 (NT-3) modulates early differentiation of oligodendrocytes in rat brain cortical cultures

Heinrich M *et al* (1999) *Glia* 28(3)

**PubMedID** [10559783](#)

**NT-3, like NGF, is required for survival of sympathetic neurons, but not their precursors**

Francis N *et al* (1999) Dev Biol 210(2)  
**PubMedID** 10357900

**Early BDNF, NT-3, and NT-4 signaling events**

Yuen EC *et al* (1999) Exp Neurol 159(1)  
**PubMedID** 10486198

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