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## DATASHEET

### Recombinant human NT-3 protein

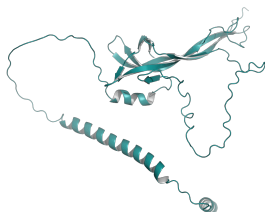
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#### Product overview

<b>Name</b>	Recombinant human NT-3 protein
<b>Cat No</b>	HB8373
<b>Biological description</b>	<p>NT-3 is a neurotrophin responsible for promoting development, survival and function of neuron.</p> <p>It is closely related to BDNF and NGF.</p> <p>Induces neural stem cell (NSC) differentiation.</p>
<b>Species of origin</b>	human
<b>Alternative names</b>	NT 3 Human, Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF, NT-3.
<b>Biological action</b>	Activator
<b>Purity</b>	>97%
<b>Description</b>	Neurotrophin involved in neuron development, survival and differentiation

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#### Images



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#### Biological Data

<b>Application notes</b>	ED <sub>50</sub> 3.6-5.4µg/ml (determined by the dose-dependent proliferation of C6 cells) Greater than: >
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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.

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## Chemical Data

UniProt ID	P20783
Sequence (one letter)	YAEHKSHRGEYSVCDSESLWVTDKSSAIDIRGHQVTVLGEIKTGNSPVKQYFYETRCKEARPVKNG CRGIDDKHWNSQCKTSQTYVRALTSENNKLVGWRWIRIDTSCVCALSRKIGRT
Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	Lyophilized from 0.02% TFA

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## 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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