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## DATASHEET

Recombinant human Neuregulin-1-B1 / NRG1-B1 protein

### Product overview

<b>Name</b>	Recombinant human Neuregulin-1-B1 / NRG1-B1 protein
<b>Cat No</b>	HB9257
<b>Biological description</b>	Growth factor which activates the ErbB2 receptor and is implicated in various nervous system functions and is also involved in many cellular processes.
<b>Species of origin</b>	human
<b>Alternative names</b>	NRG1 B1 Human, Neuregulin-1, Heregulin-b1, NRG1-B1, NRG1 B1.
<b>Biological action</b>	Activator
<b>Purity</b>	>97%
<b>Description</b>	Growth factor implicated in various nervous system functions.

### Biological Data

<b>Application notes</b>	ED <sub>50</sub> = <0.5ng/ml (determined by dose-dependent stimulation of human MCF-7 cells proliferation), corresponding to a specific activity of >2.0×10 <sup>6</sup> units/mg
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### Solubility & Handling

<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>• 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>	A0A494BZT4
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4 and 5% trehalose

### References

#### Neuregulin 1 and schizophrenia: genetics, gene expression, and neurobiology

Harrison PJ *et al* (2006) *Biol Psychiatry* 60(2)

**PubMedID** [16442083](#)

#### Neuregulin 1 in neural development, synaptic plasticity and schizophrenia

Mei L *et al* (2008) *Nat Rev Neurosci* 9(6)

PubMedID

18478032

**Neuregulin-1 attenuated doxorubicin-induced decrease in cardiac troponins**

Bian Y *et al* (2009) Am J Physiol Heart Circ Physiol 297(6)

PubMedID

19801490

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