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## DATASHEET

### Recombinant human Neuregulin-1 beta 2 protein

#### Product overview

<b>Name</b>	Recombinant human Neuregulin-1 beta 2 protein
<b>Cat No</b>	HB9819
<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>	Recombinant Human Neuregulin-1/Heregulin-b2, Neuregulin-1, NRG1, GGF, HGL, HRGA, NDF, SMDF, HRG, ARIA, GGF2, HRG1.
<b>Biological action</b>	Activator
<b>Purity</b>	>96%
<b>Description</b>	Growth factor implicated in various nervous system functions.

#### Biological Data

<b>Application notes</b>	ED <sub>50</sub> = <50ng/ml (determined by a cell proliferation assay using serum free human MCF-7 cells), corresponding to a specific activity of >2.0×10 <sup>4</sup> IU/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>• 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>	Q02297
<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)

#### 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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