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## DATASHEET

Recombinant human Neuregulin-1 Alpha / NRG1A protein

### Product overview

<b>Name</b>	Recombinant human Neuregulin-1 Alpha / NRG1A protein
<b>Cat No</b>	HB4985
<b>Species of origin</b>	human
<b>Alternative names</b>	NRG1 A Human, Neuregulin-1, Heregulin Alpha, NRG1-A, NRG1 A.
<b>Purity</b>	>97%
<b>Description</b>	Human Recombinant Neuregulin-1/Heregulin Alpha (EGF Domain) protein

### Biological Data

<b>Application notes</b>	The $ED_{50} = \leq 40\text{ng/ml}$ (determined by the dose-dependent stimulation of the proliferation of human MCF-7 cells), corresponding to a specific activity of $> 2.5 \times 10^4$ 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 $> 100\mu\text{g/ml}$ , 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 <math>100\mu\text{g/ml}</math>). This solution can then be further diluted with other aqueous solutions.</li><li>Following reconstitution, solutions may be stored at <math>4^\circ\text{C}</math> and are useable for around 2-7 days and for future use store at <math>-18^\circ\text{C}</math>.</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 $0.2\mu\text{m}$ filtered solution in 20mM PB (pH 6.0) and 150mM NaCl

### 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

