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DATASHEET

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

Product overview

Name	Recombinant human Neuregulin-1-B1 / NRG1-B1 protein
Cat No	HB9257
Biological description	Growth factor which activates the ErB2 receptor and is implicated in various nervous system functions and is also involved in many cellular processes.
Species of origin	human
Alternative names	NRG1 B1 Human, Neuregulin-1, Heregulin-b1, NRG1-B1, NRG1 B1.
Biological action	Activator
Purity	>97%
Description	Growth factor implicated in various nervous system functions.

Biological Data

Application notes	ED_{50} = <0.5ng/ml (determined by dose-dependent stimulation of human MCF-7 cells proliferation), corresponding to a specific activity of $>2.0\times10^6$ units/mg

Solubility & Handling

Solubility overview	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
Handling	• 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. • 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. • Freeze-thaw cycles should be prevented.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

UniProt ID	A0A494BZT4
Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	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

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Neuregulin 1 in neural development, synaptic plasticity and schizophrenia

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

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