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DATASHEET

Recombinant human Neuregulin-1 Alpha / NRG1A protein

Product overview

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

Biological Data

Application notes	The ED_{50} = ≤40ng/ml (determined by the dose-dependent stimulation of the proliferation of human MCF-7 cells), corresponding to a specific activity of > $2.5x10^4$ 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.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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 20mM PB (pH 6.0) and 150mM NaCl

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