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DATASHEET

Recombinant human Neuregulin-1 beta 2 protein

Product overview

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

Biological Data

Application notes	ED_{50} = <50ng/ml (determined by a cell proliferation assay using serum free human MCF-7 cells), corresponding to a specific activity of $>2.0\times10^4$ IU/mg

Solubility & Handling

Storage instructions	-20°C
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	Q02297
Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	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)
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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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