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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 >96%

Description Growth factor implicated in various nervous system functions.

Biological Data

Application notes $ED_{50} = <50$ ng/ml (determined by a cell proliferation assay using serum free human MCF-7 cells),

corresponding to a specific activity of >2.0×10⁴ IU/mg

Solubility & Handling

Storage instructions Solubility overview

-20°C

To make a stock solution, reconstitute in sterile $18M\Omega cm$ water at a concentration > $100 \mu g/ml$, 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

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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) **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)

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