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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 >97%

Description Growth factor implicated in various nervous system functions.

Biological Data

Application notes $ED_{50} = <0.5 \text{ng/ml}$ (determined by dose-dependent stimulation of human MCF-7 cells proliferation),

corresponding to a specific activity of >2.0×10⁶ units/mg

Solubility & Handling

 $\textbf{Solubility overview} \hspace{1.5cm} \textbf{To make a stock solution, reconstitute in sterile 18M} \\ \Omega cm \ water \ at \ a \ concentration \ > \ 100 \\ \mu g/ml, \ which \ determines \$

can then be diluted to make a working solution

 $\textbf{Handling} \qquad \qquad \bullet \text{ Solutions should be made in sterile deionized water (not less than 100 $\mu g/ml$). 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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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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