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DATASHEET

Recombinant human Neuregulin-1 beta 2 protein

Product overview

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| Name | Recombinant human Neuregulin-1 beta 2 protein |
| Cat No | HB9819 |
| Biological description | Growth factor which activates the ErbB2 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

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| 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 >2.0×10 ⁴ IU/mg |
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Solubility & Handling

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| 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 | <ul style="list-style-type: none">• 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

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| 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

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

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