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# 32-1625: NRN1 Recombinant Protein

**Alternative Name :** Neuritin 1,NRN1,NRN,dJ380B8.2,Neuritin.

## Description

Source : Escherichia Coli. Recombinant Human NRN1 produced in E.coli cells is a non-glycosylated, homodimeric protein containing 2x88 amino acid chains and having a molecular mass of 19.4kDa. The NRN1 is purified by proprietary chromatographic techniques. Neuritin (NRN1) is a neurotrophic factor, which is expressed in response to induction of neuronal activity by NGF, BDNF, NT3 and other neural stimulators. NRN1 is expressed principally in postmitotic-differentiating neurons of the developing nervous system and in neuronal structures related to synaptic plasticity in the adult nervous system. NRN1 functions as a molecular mediator of neurite outgrowth, neuronal survival, and synaptic maturation.

## Product Info

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| **Amount :** | 20 µg |
| **Purification :** | Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| **Content :** | The NRN1 was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4. |
| **Storage condition :** | Lyophilized NRN1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NRN1 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles. |
| **Amino Acid :** | AGKCDAVFKG FSDCLLKLGD SMANYPQGLD DKTNIKTVCT YWEDFHSCTV TALTDCQEGA KDMWDKLRKE SKNLNIQGSL FELCGSGN. |

## Application Note

It is recommended to reconstitute the lyophilized NRN1 in sterile 18M-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by a cell proliferation assay using rat C6 cells is less than 25ng/ml, corresponding to a specific activity of > 4.0 Ã□â□□ 104 IU/mg.

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***