

**Neuritin, human recombinant protein**  
**CPG15, NRN1**  
**Catalog # PBV10809r****Specification**

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**Neuritin, human recombinant protein - Product info**

Primary Accession [O9NPD7](#)  
Calculated MW **9.72 kDa** KDa

**Neuritin, human recombinant protein - Additional Info**

|                    |                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------|
| Gene ID            | <b>51299</b>                                                                                                   |
| Gene Symbol        | <b>NRN</b>                                                                                                     |
| <b>Other Names</b> |                                                                                                                |
| CPG15, NRN1        |                                                                                                                |
| Gene Source        | <b>Human</b>                                                                                                   |
| Source             | <b>E. Coli</b>                                                                                                 |
| Assay&Purity       | <b>SDS-PAGE; ≥98%</b>                                                                                          |
| Assay2&Purity2     | <b>HPLC;</b>                                                                                                   |
| Recombinant        | <b>Yes</b>                                                                                                     |
| Sequence           | <b>AGKCDAVFKG FSDCLLKLGD SMANYPQGLD<br/>DKTNIKTVCT YWEDFHSCTV TALTDCEGA<br/>KDMWDKLRKE SKNLNIQGSF FELCGSGN</b> |

**Target/Specificity**  
Neuritin

**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**Format**

Lyophilized powder

**Storage**

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized with no additives

**Neuritin, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Neuritin, human recombinant protein - Images**

#### **Neuritin, human recombinant protein - Background**

Neuritin is a neurotrophic factor, which is expressed in response to induction of neuronal activity by NGF, BDNF, NT3, and other neural stimulators. It is expressed primarily in post mitotic-differentiating neurons of the developing nervous system and in neuronal structures related to synaptic plasticity in the adult nervous system. Neuritin acts as a molecular mediator of neurite outgrowth, neuronal survival, and synaptic maturation. Recombinant human Neuritin is a covalently disulfide-linked homodimer, consisting of two 9.72 kDa polypeptide monomers, each containing 88 amino acid residues.

#### **Neuritin, human recombinant protein - References**

Naeve G.S., et al. Proc. Natl. Acad. Sci. U.S.A. 94:2648-2653(1997).  
Zhou H., et al. Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.  
Fan Y.X., et al. Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Mungall A.J., et al. Nature 425:805-811(2003).