

## Neuritin Protein, Human (N-His)

<b>Cat. No.:</b>	HY-P71908A
<b>Synonyms:</b>	Neuritin 1; Neuritin; NRN; Nrn1; NRN1_HUMAN; OTTHUMP00000015989; RP3 380B8.2 protein
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9NPD7 (A28-N115)
<b>Gene ID:</b>	51299
<b>Molecular Weight:</b>	Approximately 11 kDa

### PROPERTIES

<b>AA Sequence</b>	A G K C D A V F K G      F S D C L L K L G D      S M A N Y P Q G L D      D K T N I K T V C T Y W E D F H S C T V      T A L T D C Q E G A      K D M W D K L R K E      S K N L N I Q G S L F E L C G S G N
<b>Biological Activity</b>	Measured in a cell proliferation assay using rat C6 cells. The ED <sub>50</sub> this effect is 17.37 ng/ml, corresponding to a specific activity is 5.76×10 <sup>4</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Neuritin, a key player in neural development, significantly enhances neurite outgrowth and branching in primary hippocampal and cortical cells. Within the AMPA receptor (AMPA) complex, Neuritin contributes to the outer core, which is part of the intricate architecture that modulates the function and properties of these receptors. The AMPA complex, consisting of an inner core with pore-forming GluA/GRIA proteins and major auxiliary subunits, involves specific interactions with Neuritin and other components like PRRT1, PRRT2, CKAMP44/SHISA9, FRRS1L, and NRN1 in the outer core. This outer core is crucial for fine-tuning the gating, pharmacology, biogenesis, and protein processing of AMPARs. Neuritin's</p>
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involvement in the complex network of protein-protein interactions highlights its role as a regulatory element in shaping the functional properties of AMPARs and underscores its significance in neuronal connectivity.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA