Recombinant Human NRN1 protein

Cat. No. NRN1-1551H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRN1 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	88
Description	This gene encodes a member of the neuritin family, and is expressed in postmitotic-differentiating neurons of the developmental nervous system and neuronal structures associated with plasticity in the adult. The expression of this gene can be induced by neural activity and neurotrophins. The encoded protein contains a consensus cleavage signal found in glycosylphoshatidylinositol (GPI)-anchored proteins. The encoded protein promotes neurite outgrowth and arborization, suggesting its role in promoting neuritogenesis. Overexpression of the encoded protein may be associated with astrocytoma progression. Alternative splicing results in multiple transcript variants.
Form	Lyophilized from a 0.2μm filtered solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by by a cell proliferation assay using rat C6 cells is less than 25 ng/ml, corresponding to a specific activity of > 4.0×10^4 IU/mg.
Molecular Mass	Approximately 19.4 kDa, a disulfide-linked homodimeric protein containing two 88

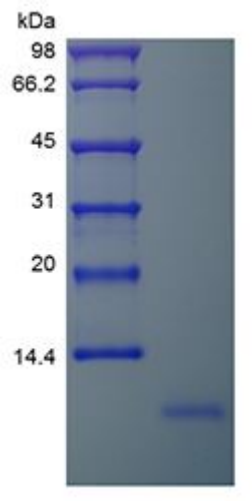
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	amino acids.
AA Sequence	AGKCDAVFKGFSDCLLKLGDSMANYPQGLDDKTNIKTVCTYWEDFHSCTVTALTDC QEGAKDMWDKLRKESKNLNIQGSLFELCGSGN
Endotoxin	Less than 0.1 EU/μg of rHuNeuritin as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	NRN1
Official Symbol	NRN1
Synonyms	NRN1; neuritin 1; neuritin; NRN; dJ380B8.2; MGC44811;
Gene ID	51299
mRNA Refseq	NM_016588

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Protein Refseq	NP_057672
MIM	607409
UniProt ID	Q9NPD7
SDS-PAGE of NRN1-1551H	

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