

## Recombinant Human NRGN Protein, His-tagged

Cat. No. NRGN-2511H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NRGN Protein (Met1-Ala67) with a N-His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1-Ala67
<b>Description</b>	<p>Neurogranin (NRGN) is the human homolog of the neuron-specific rat RC3/neurogranin gene. This gene encodes a postsynaptic protein kinase substrate that binds calmodulin in the absence of calcium. The NRGN gene contains four exons and three introns. The exons 1 and 2 encode the protein and exons 3 and 4 contain untranslated sequences. It is suggested that the NRGN is a direct target for thyroid hormone in human brain, and that control of expression of this gene could underlay many of the consequences of hypothyroidism on mental states during development as well as in adult subjects.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	<p>Predicted Molecular Mass: 10.44 kDa            Accurate Molecular Mass: 15 kDa</p>
<b>Endotoxin</b>	<1.0 EU per 1g (determined by the LAL method).

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<b>Purity</b>	> 97%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	NRGN neurogranin (protein kinase C substrate, RC3) [ Homo sapiens (human) ]
<b>Official Symbol</b>	NRGN
<b>Synonyms</b>	NRGN; RC3; hng; neurogranin (protein kinase C substrate, RC3); neurogranin; ng; calmodulin-binding protein; protein kinase C substrate
<b>Gene ID</b>	4900
<b>mRNA Refseq</b>	NM_001126181
<b>Protein Refseq</b>	NP_001119653

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<b>MIM</b>	602350
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<b>UniProt ID</b>	Q92686
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