

Recombinant Human NRGN Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human NRGN Protein (Met1-Ala67) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Ala67
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 10.44 kDa Accurate Molecular Mass: 15 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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

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