

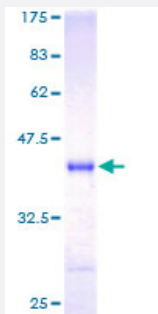
Full-Length

NRGN (Human) Recombinant Protein (P01)

Catalog # H00004900-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NRGN full-length ORF (AAH02835, 1 a.a. - 78 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDCCTENACSKPDDDILDPLDDPGANAAAAKIQASFRGHMARKKKIKSGERGRKGPGPGGPGGA GVARGGAGGGPSGD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	34.32
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NRGN

Entrez GeneID [4900](#)

GeneBank Accession# [BC002835](#)

Protein Accession# [AAH02835](#)

Gene Name NRGN

Gene Alias RC3, hng

Gene Description neurogranin (protein kinase C substrate, RC3)

Omim ID [602350](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations calmodulin-binding protein|neurogranin|protein kinase C substrate

Publication Reference

- [Regulation of CaMKII by Phospho-Thr253 or Phospho-Thr286 Sensitive Targeting Alters Cellular Function.](#)

Skelding KA, Suzuki T, Gordon S, Xue J, Verrills NM, Dickson PW, Rostas JA.

Cellular Signalling 2010 May; 22(5):759.

Application: PI, WB-Re, Recombinant protein

Disease

- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)