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# Recombinant human Neurogranin protein

Catalog Number: ATGP2734

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-78aa

#### UniProt No.

092686

#### **NCBI Accession No.**

NP 001119653

#### **Alternative Names**

Neurogranin, NRGN, HNG, RC3

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

10 kDa (101aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

0.5mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH7.0) containing 30% glycerol 0.1mM PMSF,1mM EDTA

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

NRGN, also known as Neurogranin, is a calmodulin-binding protein expressed exclusively in the brain, particularly in dendritic spines, and participating in the protein kinase C signaling pathway. This protein is the main postsynaptic protein regulating the availability of calmodulin, binding to it in the absence of calcium. Phosphorylation by protein kinase C lowers its binding ability. Recombinant human NRGN protein, fused to Histag at N-terminus, was expressed in E. coli and purified by using conventional chromatography



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# **Amino acid Sequence**

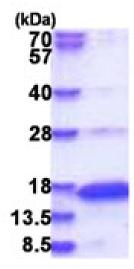
MGSSHHHHHH SSGLVPRGSH MGSMDCCTEN ACSKPDDDIL DIPLDDPGAN AAAAKIQASF RGHMARKKIK SGERGRKGPG PGGPGGAGVA RGGAGGPSG D

### **General References**

Martinez de Arrieta, C. et al. (1999) Endocrinology. 140: 335-343 Broadbelt K. et al. (2006) Schizophr Res. 87:6-14.

# **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.