

Recombinant human Neurogranin protein

Catalog Number: ATGP2734

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-78aa

UniProt No.

Q92686

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 His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMDCCCTEN ACSKPDDDDIL DIPLDDPGAN AAAAKIQASF RGHMARKKIK SGERGRKGP
PGGPGGAGVA RGGAGGGPSG 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



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

15% SDS-PAGE (3ug)