

Catalog No.: RP01814 **Recombinant**

Species	Gene ID	Swiss Prot
Human	4900	O92686

C-hFC

RC3; hng;NRGN;Neurogranin

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
33.45 kDa	45 kDa

< 0.01 EU/μg of the protein by LAL method

Lyophilized from a 0.22 μm filtered solution of 20mM Tris 150mM NaCl, pH 7.5.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Neurogranin is as a small protein encoded by the *NRGN* gene. It is a calmodulin-binding protein expressed primarily in the brain, particularly in dendritic spines, and participating in the protein kinase C signaling pathway. Neurogranin 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. It is a potential biomarker of neurological and mental diseases.

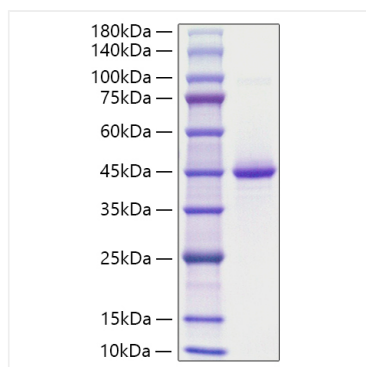
Recombinant Human Neurogranin/NRGN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp2-Asp78) of human NRGN/Neurogranin (Accession #) fused with hFc tag at the C-terminus.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Neurogranin/NRGN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.