

Recombinant Human NRGN/Neurogranin Protein

Catalog No.: RP01814 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4900	Q92686

Tags

C-hFc

Synonyms

RC3; hng;NRGN;Neurogranin

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Endotoxin

< 0.01EU/μg

Formulation

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

Reconstitution

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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Background

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.

Basic Information

Description

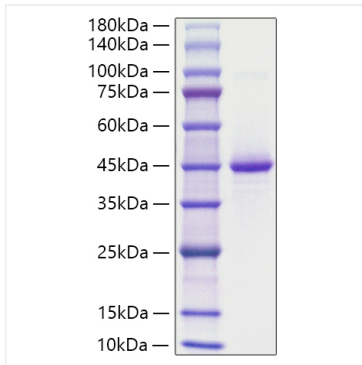
Recombinant Human NRGN/Neurogranin Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp2-Asp78) of human NRGN/Neurogranin (Accession #) fused with hFc tag at the C-terminus.

Bio-Activity

Storage

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 NRGN/Neurogranin Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-45 kDa.