



## Synonym

Calmodulin binding protein

## Source

Human Neurogranin, His Tag(NEN-H5144) is expressed from E. coli cells. It contains AA Met 1 - Asp 78 (Accession # [Q92686](#)).

Predicted N-terminus: His

## Molecular Characterization

Poly-his	Neurogranin(Met 1 - Asp 78) Q92686
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 9.5 kDa. The protein migrates as 15 kDa under reducing (R) condition (SDS-PAGE).

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

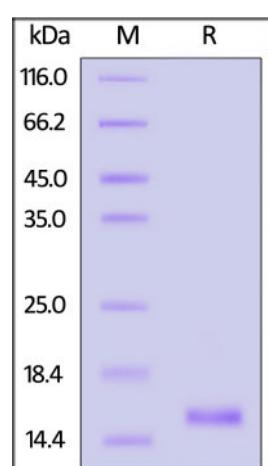
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human Neurogranin, His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Background

Neurogranin is 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.

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# Human Neurogranin Protein, His Tag

Catalog # NEN-H5144



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