

# Recombinant mouse Nesfatin-1/Nucleobindin-2 protein

Catalog Number: NUC0801

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

25-420aa

### UniProt No.

P81117

### NCBI Accession No.

NP\_058053

### Alternative Names

Nucleobindin 2 isoform 2, Nucleobindin 2, Nefa, Calnuc, AI607786, Nucleobindin 2 isoform 2, Nucb2, mouse Nucb2, Nucleobindin 2 isoform 2 DNA binding protein NEFA, Gastric cancer antigen Zg4,

## PRODUCT SPECIFICATION

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### Molecular Weight

49 kDa (417aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM EDTA

### Purity

> 95% 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

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### Description

Nucleobindin-2 (Nucb2) is a calcium-binding EF-hand protein. Nucb2 may be having a role in calcium homeostasis and multifunctional protein that interact with Ca (2+), nucleic acids and various regulatory proteins in different signaling pathways. In mouse brain, Nucb2 was localized in neuronal perikarya and dendrites. Recombinant mouse Nucb2 was expressed in E. coli and purified by conventional chromatography techniques.

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## Amino acid Sequence

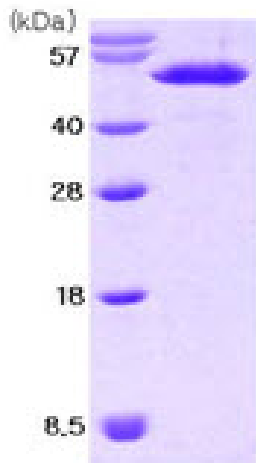
MGSSHHHHHH SSSLVPRGSH MVPIDVDKTK VHNTPEVENA RIEPPDTGLY YDEYLKQVIE VLETDPHFRE KLOKADIEEI  
RSGRLSQELD LVSHKVRTRL DELKRQEVGR LRMLIKAKLD ALQDTGMNHH LLLKQFEHLN HQNPNTFESR DLDMLIKAAT  
ADLEQYDRTR HEEFKKYEMM KEHERREYLK TLSEEKRKEE ESKFEEMKRK HEDHPKVNHP GSKDQLKEVW EETDGLDPND  
FDPKTFKKLH DVNNDGFLDE QELEALFTRE LEKVYNPQNA EDDMIEMEEE RLRMREHVMS EIDNNKDRLV TLEEFRLATE  
KKEFLEPDSW ETLDQQQLFT EDELKEYESI IAIQENELKK RAEELQKQKE DLQRQHDHLE AQKQEYHQAV QHLEQKKLQQ  
GIAPSGPAGE LKFEPHT

## General References

Oh-I S., et al. (2006) Nature. 443: 709-712.  
Karabinos A., et al. (1996) Mol Biol Evol 13(7):990-8

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)