

# Recombinant human NAPG protein

Catalog Number: ATGP1228

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-312aa

### UniProt No.

Q99747

### NCBI Accession No.

NP\_003817.1

### Alternative Names

Gamma-soluble NSF attachment protein, GAMMA-SNAP

## PRODUCT SPECIFICATION

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### Molecular Weight

37.3 kDa (336aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl, 1mM DTT

### 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

NAPG, also known as gamma-SNAP, is a cytoplasmic protein that binds to a membrane receptor complex composed of VAMP, SNAP25 and syntaxin. It mediates the membrane binding of NSF, which is essential for membrane fusion reactions. An additional protein designated synaptophysin may regulate exocytosis by competing with SNAP25 and syntaxins for VAMP binding. Recombinant human NAPG 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 SSGLVPRGSH MGSH>MAAQKI NEGLEHLAKA EKYLKTGFLK WKPDYDSAAS EYGKAAVAFK  
NAKQFEQAKD ACLREAVAHE NNRALFHA AK AYEQAGMMLK EMQKLPEAVQ LIEKASMMYL ENGTPDTAAM ALERAGKLIE  
NVDPEKAVQL YQQTANVFEN EERLRQAVEL LGKASRLVLR GRRFDEAALS IQKEKNYKE IENYPTCYKK TIAQVLVHLH  
RNDYVAAERC VRESYSIPGF NGSEDCAALE QLLEGYDQQD QDQVSDVCNS PLFKYMDNDY AKLGLSLVVP GGGIKKSPA  
TPQAKPDGVT ATAADDEEDE YSGGLC

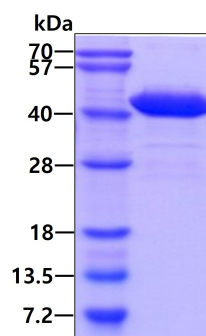
## General References

Bennett M.K. et al. (1993) Cell 74: 863-873.

McMahon H.T. et al. (1995) J. Biol. Chem. 270: 2213-2217.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.