

Recombinant human NAPG protein

Catalog Number: ATGP1228

PRODUCT INFORMATION

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

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

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

<MGSSHHHHH 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

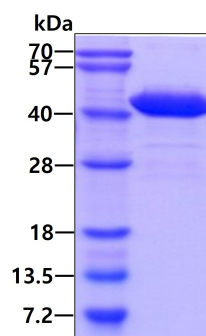
General References

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 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.