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

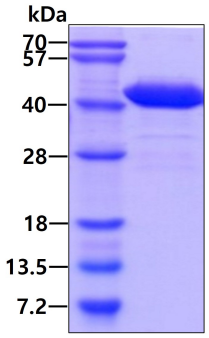
<MGSSHHHHHH SSGLVPRGSH MGSH>MAAQKI NEGLEHLAKA EKYLKTGFLK WKPDYDSAAS EYGKAAVAFK NAKQFEQAKD ACLREAVAHE NNRALFHAAK AYEQAGMMLK EMQKLPEAVQ LIEKASMMYL ENGTPDTAAM ALERAGKLIE NVDPEKAVQL YQQTANVFEN EERLRQAVEL LGKASRLLVR GRRFDEAALS IQKEKNIYKE IENYPTCYKK TIAQVLVHLH RNDYVAAERC VRESYSIPGF NGSEDCAALE QLLEGYDQQD QDQVSDVCNS PLFKYMDNDY AKLGLSLVVP GGGIKKKSPA TPQAKPDGVT ATAADEEEDE 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



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