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# Recombinant human CapG protein

Catalog Number: ATGP0439

# **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-348aa

#### **UniProt No.**

P40121

#### **NCBI Accession No.**

AAH00728

#### **Alternative Names**

Macrophage-capping protein, MCP, AFCP, Macrophage-capping protein Actin capping protein GCAP39, Actin regulatory protein CAP G, CAPG, Capping protein (actin filament) gelsolin like, Capping protein gelsolin like, gCap39, Gelsolin like capping protein, Macrophage capping protein, mbh1, Myc basic motif homolog 1.

### **PRODUCT SPECIFICATION**

# **Molecular Weight**

38.5 kDa (348aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

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

# **Purity**

> 95% by SDS-PAGE

# Tag

Non-Tagged

# **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**

Macrophage-capping protein, also known as CAPG, belongs to the gelsolin/villin family of actin-regulatory proteins. CAPG is a calcium-sensitive DNA-binding protein that plays a role in macrophage function. It is expressed in macrophages and macrophage-like cells and can localize both to the nucleus and the cytoplasm. This protein reversibly blocks the barbed ends of F-actin filaments in a Ca2+ and phosphoinositide-regulated



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manner, but does not sever preformed actin filaments. Recombinant human CAPG was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

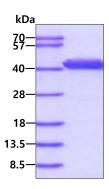
MYTAIPQSGS PFPGSVQDPG LHVWRVEKLK PVPVAQENQG VFFSGDSYLV LHNGPEEVSH LHLWIGQQSS RDEQGACAVL AVHLNTLLGE RPVQHREVQG NESDLFMSYF PRGLKYQEGG VESAFHKTST GAPAAIKKLY QVKGKKNIRA TERALNWDSF NTGDCFILDL GQNIFAWCGG KSNILERNKA RDLALAIRDS ERQGKAQVEI VTDGEEPAEM IQVLGPKPAL KEGNPEEDLT ADKANAQAAA LYKVSDATGQ MNLTKVADSS PFALELLISD DCFVLDNGLC GKIYIWKGRK ANEKERQAAL QVAEGFISRM QYAPNTQVEI LPQGRESPIF KQFFKDWK

#### **General References**

Dabiri G A., et al. (1992) J Biol Chem. 267:16545-16552. Pellieux C., et al. (2003) J Biol Chem. 278(3):29136-44.

#### **DATA**

#### **SDS-PAGE**



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

