

## 32-3413: CAPG Recombinant Protein

**Alternative Name :** AFCP,CAPG,Macrophage-capping protein,Actin regulatory protein CAP-G,MCP.

### Description

Source : Escherichia Coli. CAPG Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 348 amino acids (1-348 a.a.) and having a molecular mass of 38.5 kDa. The CAPG protein is purified by standard chromatography techniques. CAPG is part of the gelsolin/villin family of actin-regulatory proteins. CAPG reversibly blocks the barbed ends of F-actin filaments in a Ca<sup>2+</sup> and phosphoinositide-regulated method, though it does not separate preformed actin filaments. By capping the barbed ends of actin filaments, CAPG contributes to the control of actin-based motility in non-muscle cells. CAPG is involved in macrophage function. CAPG is involved in regulating cytoplasmic and/or nuclear structures via possible interactions with actin. CAPG binds DNA. CAPG lacks a nuclear export sequence present in structurally related proteins. CAPG is a tumor suppressor protein that plays a role in the tumorigenic progression of certain cancers. Dysregulated expression of CAPG was found in premalignant and malignant oral carcinogenesis.

### Product Info

<b>Amount :</b>	25 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	The protein solution (1mg/ml) contains 20mM Tris buffer pH-8, 1mM DTT and 10% glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MYTAIPQSGS PFPGSVQDPG LHVWRVEK LK PVPVAQENQG VFFSGDSYLV LHNGPEEVSH LHLWIGQQSS RDEQGACAVL AVHLN TLLGE RPVQHREVQG NESDLFMSYF PRGLKYQEGG VESAFHKTST GAPAAIKKLY QVKGKKNIRA TERALNWDSF NTGDCFILD L GQNIFAWCGG KSNILERNKA RDLALAIRDS ERQGKAQVEI VTDGEEPAEM IQVLGPKPAL KEGNPEEDLT ADKANAQAAA LYKVSDATGQ MNLTKVADSS PFALELLISD DCFVLDNGLC GKIIYWKGRK ANEKERQAAL QVAEGFISRM QYAPNTQVEI LPQGRESPIF KQFFKDWK.

