

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 Ca²⁺ 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

Amount :	25 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The protein solution (1mg/ml) contains 20mM Tris buffer pH-8, 1mM DTT and 10% glycerol.
Storage condition :	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.
Amino Acid :	MYTAIPQSGS PFPGSVQDPG LHVWRVEKLG PVPVAQENQG VFFSGDSYLV LHNGPEEVSH LHLWIGQSS RDEQGACAVL AVHLNLLGE RPVQHREVQG NESDLFMSYF PRGLKYQEGG VESAFHKTST GAPAAIKKLY QVKGKKNIRA TERALNWDSF NTGDCFILDG QNIFAWCGG KSNILERNKA RDLALAIRDS ERQGKAQVEI VTDGEEPAEM IQVLGPKPAL KEGNPEEDLT ADKANAQAAA LYKVSDATGQ MNLTKVADSS PFALELLISD DCFVLDNGLC GKIYIWKGRK ANEKERQAAL QVAEGFISRM QYAPNTQVEI LPQGRESPIF KQFFKDWK.

