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CAPG Human

Catalog #:PRPS-766

For research use only.

Description: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.

Synonyms:AFCP, CAPG, Macrophage-capping protein, Actin regulatory protein CAP-G, MCP.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

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 KE

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The protein solution (1mg/ml) contains 20mM Tris buffer pH-8, 1mM DTT and 10% glycerol.

Stability:
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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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, thoµgh 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.

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