

Recombinant Human Capping Protein (actin filament), Gelsolin-like

Cat. No. CAPG-1826H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human CAPG was expressed in E.coli and purified by using conventional chromatography techniques.

Species

Human

Source

E.coli

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 manner, but does not sever preformed actin filaments.

Sequences of amino acids

MYTAIPQSGS PFPGSVQDPG LHVWRVEKLNK PVPVAQENQG VFFSGDSYLV
LHNGPEEVSH LHLWIGQQSS RDEQGACAVL AVHLNNTLLGE 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

Form

Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol

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Molecular Weight	38.5 kDa (348aa)
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	CAPG capping protein (actin filament), gelsolin-like [Homo sapiens]
Synonyms	CAPG; AFCP; MCP; capping protein (actin filament), gelsolin-like; gelsolin-like capping protein; OTTHUMP00000203057; OTTHUMP00000203058; macrophage capping protein; actin-regulatory protein CAP-G; Actin regulatory protein CAP-G.
Gene ID	822
mRNA Refseq	NM_001747
Protein Refseq	NP_001738
MIM	153615
UniProt ID	P40121
Chromosome Location	2p11.2
Function	actin binding

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