

Human CAPG / AFCP Protein

Catalog Number: 14213-HNAE



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

AFCP; HEL-S-66; MCP; gCap39; mbh1

Protein Construction:

A DNA sequence encoding human CAPG(AAH14549.1) (Met1-Lys348) was expressed.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human CAPG consists of 348 amino acids and predicts a molecular mass of 38.5 KDa. It migrates as an approximately 43 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM tris, 10% glycerol, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

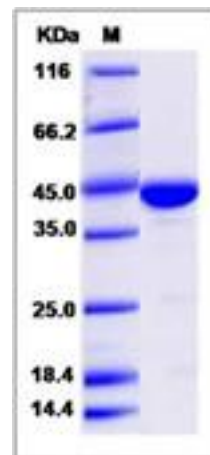
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CAPG, also known as actin Regulatory Protein CAPG, is a member of the gelsolin/villin family. Members of this family are actin-regulatory proteins. CAPG reversibly blocks the barbed ends of F-actin filaments in a Ca²⁺ and phosphoinositide-regulated manner, but does not sever 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 may also play an important role in macrophage function.

References

1. Watari A. et al., 2007, Oncogene. 25 (56): 7373-80.
2. De Corte V. et al., 2005, J Cell Sci. 117 (22): 5283-92.
3. Van Impe K. et al., 2003, J Biol Chem. 278 (20): 17945-52.

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