

CAPG Protein, Human, Recombinant

General Information

Synonyms:	capping protein (actin filament), gelsolin-like;HEL-S-66;MCP;AFCP
Protein Construction:	A DNA sequence encoding human CAPG(AAH14549.1) (Met1-Lys348) was expressed. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	AAH14549.1
Molecular Weight:	38.5 kDa (predicted); 43 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM tris, 10% glycerol, pH 8.0. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Reference

Watari A. et al., 2007, Oncogene. 25 (56): 7373-80.

De Corte V. et al., 2005, J Cell Sci. 117 (22): 5283-92.

Van Impe K. et al., 2003, J Biol Chem. 278 (20): 17945-52.

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