

CAPG Protein, Human

Cat. No.:	HY-P75601
Synonyms:	Macrophage-capping protein; Actin regulatory protein CAP-G; CAPG; AFCP; MCP
Species:	Human
Source:	E. coli
Accession:	AAH14549 (M1-K348)
Gene ID:	822
Molecular Weight:	Approximately 42 kDa

PROPERTIES

AA Sequence	<pre> MYT A I P Q S G S P F P G S V Q D P G L H V W R V E K L K P V P V A Q E N Q G V F F S G D S Y L V L H N G P E E V S H L H L W I G Q Q S S R D E Q G A C A V L A V H L N T L L G E R P V Q H R E V Q G N E S D L F M S Y F P R G L K Y Q E G G V E S A F H K T S T G A P A A I K K L Y Q V K G K K N I R A T E R A L N W D S F N T G D C F I L D L G Q N I F A W C G G K S N I L E R N K A R D L A L A I R D S E R Q G K A Q V E I V T D G E E P A E M I Q V L G P K P A L K E G N P E E D L T A D K A N A Q A A A L Y K V S D A T G Q M N L T K V A D S S P F A L E L L I S D D C F V L D N G L C G K I Y I W K G R K A N E K E R Q A A L Q V A E G F I S R M Q Y A P N T Q V E I L P Q G R E S P I F K Q F F K D W K </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 8.0, 10% Glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Macrophage-capping protein (CAPG), a ubiquitous actin-binding protein, belongs to the gelsolin/villin superfamily and is associated with cell motility. CAPG is a Ca ²⁺ -sensitive protein and plays a role in macrophage function and cancer progression ^{[1][2]} . Besides, CapG expression is elevated in kinds of cancer, such as HCC, pancreatic cancer and breast cancer.
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CapG is involved in the process of metastasis by promoting the invasiveness of tumor cells^[3].

Caution: Product has not been fully validated for medical applications. For research use only.

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