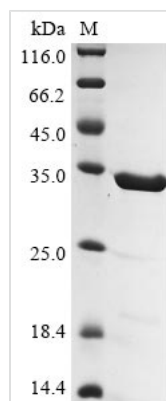




Recombinant Human Gelsolin (GSN), partial

Product Code	CSB-EP009965HU1
Abbreviation	Recombinant Human GSN protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P06396
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DEELGGTPVQSRVVQGKEPAHLMSLFGGKPMIIYKGGTSREGGQTAPASTRL FQVRANSAGATRAVEVLPAKAGALNSNDAFVLKTPSAAYLWVG TGASEAEK TG AQELLRVLRAQPVQVAEGSEPDGFWEALGGKAAAYRTSPRLKDKKMDAHP PR LFACSNKIGRFVIEEVP GELMQEDLATDDVMLLD TDWQVFVWVGKDSQEE EEK TEALTS AKRYIETDPANRDRRTPTVVKQGFEPSPFVGWFLGWDDDDYWS VDP LDRAMAELAA
Research Area	Signal Transduction
Source	E.coli
Target Names	GSN
Expression Region	514-782aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	33.5 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 514-782 form the expressed segment for recombinant Human GSN. The expected molecular weight for the GSN protein is calculated to be 33.5 kDa. The GSN protein was expressed in e.coli. The GSN gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant GSN protein during the following stages.

Human gelsolin (GSN) is a multifunctional actin-binding protein that regulates cytoskeletal dynamics and participates in various cellular processes. GSN severs and caps actin filaments, modulating actin cytoskeleton organization, which is crucial for cell motility, shape changes, and intracellular signaling. It also acts as a calcium-regulated actin filament-severing protein, influencing processes such as cell migration, phagocytosis, and apoptosis. GSN is implicated in cytoplasmic and extracellular functions, including modulation of inflammation and cell adhesion. Aberrations in GSN expression have been associated with certain diseases, including amyloidosis. Understanding its diverse roles in cellular physiology contributes to insights into its potential therapeutic applications.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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