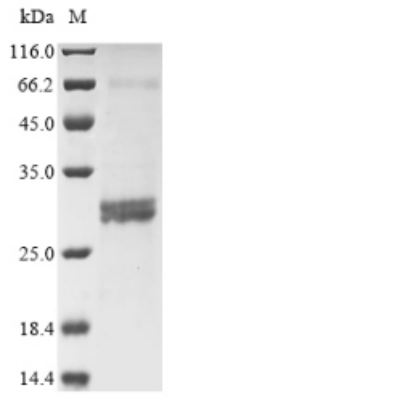
Recombinant Human Rho-related GTP-binding protein RhoG (RHOG)

Product Code	CSB-EP019690HU
Abbreviation	Recombinant Human RHOG protein
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.	P84095
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 85% as determined by SDS-PAGE.
Sequence	MQSIKCVVVGDGAVGKTCLLICYTTNAFPKEYIPTVFDNYSAQSAVDGRTVNLN LWDTAGQEEYDRLRTLSYPQTNVFVICFSIASPPSYENVRHKWHPEVCHHCP DVPILLVGTKKDLRAQPDTLRRLKEQGQAPITPQQGQALAKQIHAVRYLECSAL QQDGVKEVFAEAVRAVLNPTPIKRGRSC
Research Area	Signal Transduction
Source	E.coli
Target Names	RHOG
Expression Region	1-188aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	28.4 kDa
Protein Length	Full Length
Image	



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

Description

Amino acids 1-188 form the expressed segment for recombinant Human RHOG. The calculated molecular weight for this RHOG protein is 28.4 kDa. This RHOG recombinant protein is manufactured in e.coli. The RHOG gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant RHOG protein during the following stages.

The human Rho-related GTP-binding protein RHOG is a member of the Rho family of small GTPases, playing a pivotal role in regulating cellular processes like cytoskeletal dynamics, cell adhesion, and cell migration. RHOG acts as a molecular switch, cycling between an active GTP-bound state and an inactive GDP-bound state. Upon activation, RHOG interacts with downstream effectors to modulate the organization of the actin cytoskeleton, thereby influencing cell morphology and movement. Its involvement in signaling pathways makes RHOG a key regulator of various cellular functions, and its dysregulation has been associated with diseases such as cancer and immune disorders. Research on RHOG aims to elucidate its specific roles in different cellular contexts, providing insights into potential therapeutic targets.

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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