重组人CCPG1蛋白

Recombinant CCPG1 protein (His tag)

目录号 Catalog Number	546225
同用名 Synonyms	Cell cycle progression restoration protein 8
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q9ULG6
分子量 Molecular Weight	Predictes a molecular mass of 23.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKHHHHH HGGSKSLKEN LARCWTLTEA EKMSFETQKT NLATENQYLR VSLEKEEKAL SSLQEELNKL REQIRILEDK GTSTELVKEN QKLKQHLEEE KQKKHSFLSQ RETLLTEAKM LKRELERERL VTTALRGELQ QLSGSQLHGK SDSPNVYTEK KEIAILRERL TELERKLTFE QQRSDLWERL YVEAKD
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 276-457 aa (Q9ULG6) were fused with N-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

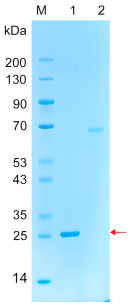
功能描述

研究背景 Background

Introducing the recombinant fragment of Cell Cycle Progression Protein 1 (CCPG1), encompassing residues 276-457. This 182-amino acid fragment has been carefully selected for its stability and solubility, making it an ideal tool for structural studies, biochemical assays, and functional investigations into Rho protein signaling and cell cycle regulation.
Cell Cycle Progression Protein 1 (CCPG1) is a human protein that serves as an assembly platform for Rho protein signaling complexes. It specifically limits the guanine nucleotide exchange activity of MCF2L toward RHOA, thereby inhibiting both transcriptional activation and transforming activity. While it does not affect MCF2L activity toward CDC42 or MCF2 activity toward RHOA or CDC42, CCPG1 is believed to play a role in cell cycle regulation. The protein is localized to cytoplasmic granule membranes as a single-pass type II membrane protein, positioning it strategically for intracellular signaling functions.

验证数据

SDS-PAGE



Recombinant CCPG1 protein (His tag) SDS-PAGE
M: Marker; Lane 1: CCPG1; Lane 2: BSA