重组人DEN2D蛋白

Recombinant DEN2D protein (His tag)

目录号 Catalog Number	549644
同用名 Synonyms	Monocyte chemotactic protein-induced protein 1; MCP-induced protein 1; MCPIP-1; Regnase-1; Reg1; Zinc finger CCCH domain-containing protein 12A
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q9H6A0
分子量 Molecular Weight	Predictes a molecular mass of 48.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MNHKVHFFEY LLVVSLKKKR SEDDYEPIIT YQFPKRENLL RGQQEEEERL LKAIPLFCFP DGNEWASLTE YPRETFSFVL TNVDGSRKIG YCRRLLPAGP GPRLPKVYCI ISCIGCFGLF SKILDEVEKR HQISMAVIYP FMQGLREAAF PAPGKTVTLK SFIPDSGTEF ISLTRPLDSH LEHVDFSSLL HCLSFEQILQ IFASAVLERK IIFLAEGLST LSQCIHAAAA LLYPFSWAHT YIPVVPESLL ATVCCPTPFM VGVQMRFQQE VMDSPMEEVL LVNLCEGTFL MSVGDEKDIL PPKLQDDILD SLGQGINELK TAEQINEHVS GPFVQFFVKI VGHYASYIKR EANGQGHFQE RSFCKALTSK TNRRFVKKFV KTQLFSLFIQ EAEKSKNPPA GYFQQKILEY EEQKKQKKPR EKTVKLEHHH HHH
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 52-471 aa (Q9H6A0) were fused with C-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.

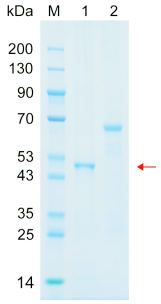
功能描述

研究背景 Background

Recombinant DENN domain-containing protein 2D (DENND2D) fragment (amino acids 52-471) from Homo sapiens, encompassing the complete uDENN, cDENN, and dDENN functional domains. This high-purity fragment serves as an essential tool for investigating the guanine nucleotide exchange factor (GEF) activity and Rab protein regulation mechanisms in cellular processes.
The full-length DENN domain-containing protein 2D, encoded by the DENND2D gene, functions as a guanine nucleotide exchange factor (GEF) that activates RAB9A and RAB9B by promoting GDP-to-GTP exchange, thereby converting inactive GDP-bound Rab proteins into their active GTP-bound forms. This activity is crucial for intracellular trafficking and membrane dynamics. The protein is localized primarily in the cytoplasm, as supported by experimental evidence. The provided fragment (52-471) strategically includes all key functional domains (uDENN, cDENN, dDENN), enabling focused studies on domain-specific roles in Rab protein activation and related cell

验证数据

SDS-PAGE



Recombinant DEN2D protein (His tag) SDS-PAGE
M: Marker; Lane 1: DEN2D; Lane 2: BSA