重组人DCAF5蛋白

Recombinant DCAF5 protein (His tag)

目录号 Catalog Number	545705
同用名 Synonyms	Breakpoint cluster region protein 2; BCRP2; WD repeat-containing protein 22
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q96JK2
分子量 Molecular Weight	Predictes a molecular mass of 49.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKHHHHH HGGSMKRRAG LGGSMRSVVG FLSQRGLHGD PLLTQDFQRR RLRGCRNLYK KDLLGHFGCV NAIEFSNNGG QWLVSGGDDR RVLLWHMEQA IHSRVKPIQL KGEHHSNIFC LAFNSGNTKV FSGGNDEQVI LHDVESSETL DVFAHEDAVY GLSVSPVNDN IFASSSDDGR VLIWDIRESP HGEPFCLANY PSAFHSVMFN PVEPRLLATA NSKEGVGLWD IRKPQSSLLR YGGNLSLQSA MSVRFNSNGT QLLALRRRLP PVLYDIHSRL PVFQFDNQGY FNSCTMKSCC FAGDRDQYIL SGSDDFNLYM WRIPADPEAG GIGRVVNGAF MVLKGHRSIV NQVRFNPHTY MICSSGVEKI IKIWSPYKQP GCTGDLDGRI EDDSRCLYTH EEYISLVLNS GSGLSHDYAN QSVQEDPRMM AFFDSLVRRE
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>85%, 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 1-426 aa (Q96JK2) 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.

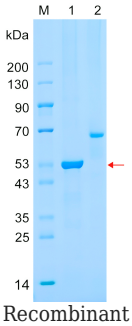
功能描述

研究背景 Background

This product is a recombinant fragment of DDB1- and CUL4-associated factor 5 (also known as Breakpoint cluster region protein 2, BCRP2, or WD repeat-containing protein 22), encompassing amino acids 1-426. This stable and soluble fragment is ideal for structural studies and biochemical assays, offering researchers a reliable tool to investigate the protein's role in ubiquitination pathways. DDB1- and CUL4-associated factor 5 (DCAF5) is a substrate receptor for the CUL4-DDB1 E3 ubiquitin-protein ligase complex (CRL4). The CRL4-DCAF5 complex plays a critical role in the ubiquitination of methylated non-histone proteins, including key regulators such as SOX2, DNMT1, and E2F1. This function highlights its importance in cellular processes like gene expression regulation, DNA methylation maintenance, and cell cycle control, making it a significant target for research in molecular biology and disease mechanisms.

验证数据

SDS-PAGE



Recombinant DCAF5 protein (His tag) SDS-PAGE
M: Marker; Lane 1: DCAF5; Lane 2: BSA