

Recombinant human CDCA8 protein

Catalog Number: ATGP1050

PRODUCT INFORMATION

Expression system

E.coli

Domain

19-280aa

UniProt No.

Q53HL2

NCBI Accession No.

NP_060571

Alternative Names

Cell division cycle-associated protein 8, Borealin, Dasra-B, PESCRG3

PRODUCT SPECIFICATION

Molecular Weight

31.6 kDa (283aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 1mM EDTA, 0.2M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CDCA8, also known as Borealin, is a component of the chromosomal passenger complex (CPC). The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. In the complex, CDCA8 protein may be required to direct the CPC to centromeric DNA. Deletion of CDCA8 delays mitotic progression and causes kinetochore-spindle to mis-attach. Recombinant human CDCA8 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

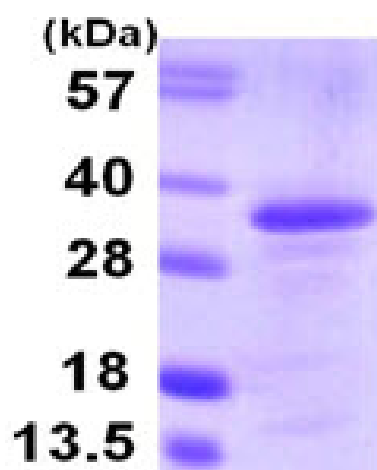
MGSSHHHHHH SSGLVPRGSH MRKLASFLKD FDREVEIRIK QIESDRQNLL KEVDNLYNIE ILRLPKALRE MNWLDYFALG
GNKQALEEAA TADLDITEIN KLTAETAIQTP LKSAKTRKVI QVDEMIVEEE EEEENERKNL QTARVKRCPK SKKRTQSIQG
KGKGRSSRA NTVTPAVGRL EVSMVKPTPG LTPRFDSRVF KTPGLRTPAA GERIYNISGN GSPLADSKEI FLTVPVGGGE
SLRLLASDLQ RHSIAQLDPE ALGNIKKLSN RLAQICSSIR THK

General References

Gassmann R., et al. (2004) J Cell Biol.166:179-191.
Chang J L., et al. (2006) EXP Cell Res. 312:962-973.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)