

# Recombinant Human Cell Division Cycle Associated 8, His-tagged

**Cat. No.** CDCA8-3526H    **Lot. No.** (See product label)

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant human CDCA8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (19-280aa).                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>        | 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. |
| <b>Form</b>               | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 1mM EDTA, 0.2M NaCl                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Weight</b>   | 31.6 kDa (283aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>             | > 90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>      | 0.25 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sequences of amino</b> | MGSSHHHHHH SSGLVPRGSH MRKLASFLKD FDREVEIRIK QIESDRQNLL                                                                                                                                                                                                                                                                                                                                                                                                                            |

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**acids**

KEVDNLYNIE ILRLPKALRE MNWLDYFALG GNKQALEEAATADLDITEIN  
 KLTAEAIQTP LKSAKTRKVI QVDEMIVEEEE EEEENERKNL QTARVKRCP  
 SKKRTQSIQG KGKGKRSSRA NTVTPAVGRLEVSMVKPTPG LTPRFDSRVF  
 KTPGLRTPAA GERIYNISGN GSPLADSKEI FLTVPVGGGE SLRLLASDLQ  
 RHSIAQLDPE ALGNIKKLSNRLAQICSSIR THK

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name** [CDCA8 cell division cycle associated 8 \[ Homo sapiens \]](#)

**Synonyms** CDCA8; BOR; DasraB; MESRGP; BOREALIN; FLJ10468; FLJ12042; borealin; Dasra B; dasra-B; hDasra-B; OTTHUMP00000004514; cell division cycle-associated protein 8; pluripotent embryonic stem cell-related gene 3 protein

**Gene ID** [55143](#)

**mRNA Refseq** [NM\\_018101](#)

**Protein Refseq** [NP\\_060571](#)

**MIM** [609977](#)

**UniProt ID** [Q53HL2](#)

**Chromosome Location** 1p34.3

**Function** protein binding

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