

# Recombinant human MIS12 protein

Catalog Number: ATGP1928

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-205aa

### UniProt No.

Q9H081

### NCBI Accession No.

NP\_076944

### Alternative Names

Protein MIS12 homolog, hMis12, KNTC2AP, MTW1

## PRODUCT SPECIFICATION

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### Molecular Weight

26.5 kDa (228aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

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### Description

Protein MIS12 homolog, also known as MIS12, is a component of the MIS12 complex, which is required for kinetochore formation during mitosis and normal chromosome alignment and segregation. The MIS12 complex consists of MIS12, DSN1, NSL1 and PMF-1. MIS12 is part of a network of complexes that provide microtubule attachment and generates pulling forces from depolymerization. Recombinant human MIS12 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMSVDPMT YEAQFFGFTP QTCMLRIYA FQDYLFVEMQ AVEQVILKKL DGIPDCDISP  
VQIRKCTEKF LCFMKGHFDN LFSKMEQLFL QLILRIPSNI LLPEDKCKET PYSEEDFQHL QKEIEQLQEK YKTELCTKQA  
LLAELEEQKI VQAKLKQTLT FFDELHNVGR DHGTSDFRES LVSLVQNSRK LQNIRDNVEK ESKRLKIS

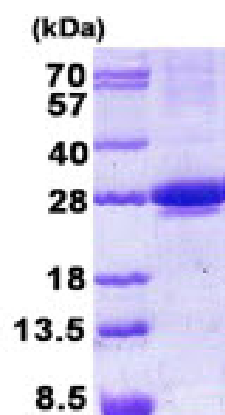
## General References

Kline S L., et al. (2006) J Cell Biol. 173:9-17.  
Goshima G., et al. (2003) J Cell Biol. 160:25-39.

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)