

# Recombinant human MAPRE1 protein

Catalog Number: ATGP0851

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-268aa

**UniProt No.**

Q15691

**NCBI Accession No.**

NP\_036457

**Alternative Names**

Microtubule-associated protein RP/EB family member 1., Microtubule-associated protein RP/EB family member 1., EB1, MGC117374, MGC129946

## PRODUCT SPECIFICATION

**Molecular Weight**

32.1 kDa (288aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

**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**

MAPRE1, also known as EB1, belongs to the intermediate/early gene family. This protein first identified by its binding to the APC protein which is often mutated in familial and sporadic forms of colorectal cancer. It localizes to microtubules, especially the growing ends, in interphase cells. During mitosis, the protein is associated with the centrosomes and spindle microtubules. MAPRE1 is involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. Recombinant human MAPRE1 protein,

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fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MAVNVYSTSV TSDNLSRHDM LAWINESLQL NLTKIEQLCS GAAYCQFMDM  
LFPGSIALKK VKFQAKLEHE YIQNFKILQA GFKRMGVDKI IPVDKLVKGK FQDNFEFVQW FKKFFDANYD GKDYDPVAAR  
QGQETAVAPS LVAPALNKPK KPLTSSSAAP QRPISTQRTA AAPKAGPGVV RKNPGVGNGD DEAAELMQQV NVLKLTVEDL  
EKERDFYFGK LRNIELICQE NEGENDPVLQ RIVDILYATD EGFVIPDEGG PQEEQEEY

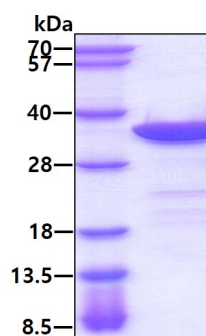
## General References

Zhang T., et al. (2009) J Cell Sci. 122(Pt 9):1401-9.

Tirnauer JS., et al. (2002) Mol Biol Cell. 13(10):3614-26.

## DATA

### SDS-PAGE



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