

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

<MGSSHHHHH SSGLVPRGSH> MAVNVYSTSV TSDNLSRHDM LAWINESLQL NLTKIEQLCS GAAYCQFMDM
LFPGSIALKK VKFQAKLEHE YIQNFKILQA GFKRMGVDKI IPVDKLVKGG FQDNFEFVQW FKKFFDANYD GKDYDPVAAR
QGQETAVAPS LVAPALNKPK KPLTSSSAAP QRPSTQRTA AAPKAGPGVV RKNPGVGNNGD DEAAELMQQV NVLKLTVEDL
EKERDFYFGK LRNIELICQE NEGENDPVLQ RIVDILYATD EGFVIPDEGG PQEEQEEY

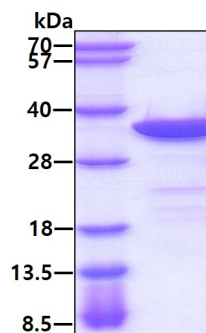
General References

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.