

Recombinant human SEPT5/SEPTIN5 protein

Catalog Number: ATGP1121

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-369aa

UniProt No.

Q99719

NCBI Accession No.

NP_002679.2

Alternative Names

Septin 5, Peanut-like proein 1, PNUTL1, HCDCREL-1, H5, Cell division control-related protein 1, CDCrel-1

PRODUCT SPECIFICATION

Molecular Weight

45.2 kDa (392aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM MES buffer (pH 5.0) containing 10% glycerol, 0.5M NaCl, 250mM Imidazole, 0.1mM PMSF

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

SEPT5, also known as septin-5, belongs to the septin gene family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Septins are highly conserved in yeast, Drosophila, and mouse and appear to regulate cytoskeletal organization. Disruption of septin function disturbs cytokinesis and results in large multinucleate or polyploid cells. Recombinant human SEPT5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MSTGLRY KSKLATPEDK QDIDKQYVGF ATLPNQVHRK SVKKGFDFTL
MVAGESGLGK STLVHSLFLT DLYKDRKLLS AEERISQTVE ILKHTVDIEE KGVKLKLTIV DTPGFGDAVN NTECWKPITD
YVDQQFEQYF RDESGLNRRKN IQDNRVHCCL YFISPFHGHL RPVDVGFMA LHEKVNIVPL IAKADCLVPS EIRKLKERIR
EEIDKFGIHV YQFPECDSDE DEDFKQQDRE LKESAPFAVI GSNTVVEAKG QRVGRGLYPW GIVEVENQAH CDFVKLRNML
IRTHMHDLDK VTCDVHYENY RAHCIQQMTS KLTQDSRMES PIPILPLPTP DAETEKLRM KDEELRRMQE MLQRMKQQMQ
DQ

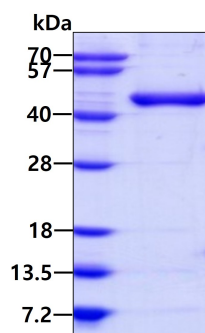
General References

Blaeser S., et al. (2002) FEBS Lett. 519:169-172

Hall P.A., et al. (2005) J. Pathol. 206:269-278

DATA

SDS-PAGE



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