Recombinant Human SEPT5, His-tagged

Cat. No. SEPT5-3591H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SEPT5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-369aa).
Species	Human
Source	E.coli
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.3M NaCl, 1mM DTT
Molecular Weight	45.2 kDa (392aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMSTGLRY KSKLATPEDK QDIDKQYVGF ATLPNQVHRK SVKKGFDFTL MVAGESGLGK STLVHSLFLT DLYKDRKLLS AEERISQTVE ILKHTVDIEE KGVKLKLTIV DTPGFGDAVN NTECWKPITD YVDQQFEQYF RDESGLNRKN IQDNRVHCCL YFISPFGHGL RPVDVGFMKA

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	LHEKVNIVPL IAKADCLVPS EIRKLKERIR EEIDKFGIHV YQFPECDSDE DEDFKQQDRE LKESAPFAVI GSNTVVEAKG QRVRGRLYPW GIVEVENQAH CDFVKLRNML IRTHMHDLKD VTCDVHYENY RAHCIQQMTS KLTQDSRMES PIPILPLPTP DAETEKLIRM KDEELRRMQE MLQRMKQQMQ DQ
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	SEPT5 septin 5 [Homo sapiens]
Official Symbol	SEPT5
Synonyms	SEPT5; H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1; HCDCREL-1; septin 5; septin-5; peanut-like 1; OTTHUMP00000197271; OTTHUMP00000197272; OTTHUMP00000197273; OTTHUMP00000197274; OTTHUMP00000197275; OTTHUMP00000197276; OTTHUMP00000197396; OTTHUMP00000197410; platelet glycoprotein Ib beta chain; cell division control related protein 1; EC 3.1.5.1; peanut-like 1 (Drosophila); Cell division control-related protein 1; Peanut-like protein 1; CDCrel-13
Gene ID	5413
mRNA Refseq	NM_001009939
Protein Refseq	NP_001009939
MIM	602724
UniProt ID	Q99719

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Chromosome Location	22q11.21
Function	GTP binding; GTPase activity; nucleotide binding; protein binding; protein binding

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