

Recombinant human SEPT2/SEPTIN2 protein

Catalog Number: ATGP0717

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-361aa

UniProt No.

Q15019

NCBI Accession No.

AAH14455

Alternative Names

Septin 2, hNedd5, KIAA0158, DIFF6, Pnutl3

PRODUCT SPECIFICATION

Molecular Weight

43.6 kDa (381aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.1M NaCl, 1mM DTT

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

Septin2 (SEPT2) is a GTPase that is required for cytokinesis and associated with exocytosis. This protein can hetero-oligomerize with Septin6, 7 and also plays a role in the organization of new growth in organisms. It is associated with a Tau-based paired helical filament core and may contribute to the formation of neurofibrillary tangle as integral constituents of paired helical filaments. Recombinant human Septin2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MSKQOPTQFI NPETPGYVGF ANLPNQVHRK SVKKGFEFTL MVVGESGLGK
STLINSLFLT DLYPERVISG AAEEKIERTVQ IEASTVEIEE RGVKLRLLTVV DTPGYGDAIN CRDCFKTIIS YIDEQFERYL
HDESGLNRRH IIDNRVHCCF YFISPFHGHL KPLDVAFMKA IHNKVNIVPV IAKADTLTLK ERERLKKRIL DEIEEHNIKI
YHLPDAESDE DEDFKEQTRL LKASIPFSVV GSNQLIEAKG KKVRGRLYPW GVVEVENPEH NDFLKLRTML ITHMQDLQEV
TQDLHYENFR SERLKRGGGRK VENEDMNKDQ ILLEKEAELR RMQEMIARMQ AQMQMQMQGG DGDGGALGHH V

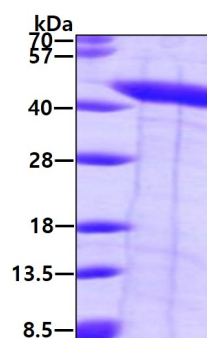
General References

Low C, et al.. (2006) J Biol Chem. 281(41):30697-706.

Kremer BE, et al. (2007) Cell. 130(5):837-50.

DATA

SDS-PAGE



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