

Recombinant human SF3B14A/SF3B6 protein

Catalog Number: ATGP0920

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-125aa

UniProt No.

Q9Y3B4

NCBI Accession No.

NP_057131

Alternative Names

"Splicing factor 3b subunit 6, SF3b 14 kDa subunit, Spliceosome-associated protein 14-kDa, Splicing factor 3b subunit 6 14kDa, pre mRNA branch site protein p14, P14, SF3B14a, Ht006, CGI-110, SAP14a, SAP14, SF3B14 "

PRODUCT SPECIFICATION

Molecular Weight

16.7 kDa (145aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 1mM EDTA, 30% glycerol

Purity

> 95% 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

SF3B14, also known as SAP14, is a 125 amino acid nuclear protein that is a component of the splicing factor 3b complex. Splicing factor 3b associates with both the u2 and u11/u12 small nuclear ribonucleoprotein complexes (u2 snRNP) of spliceosomes. Required for the splicing of pre-mRNA, SF3B14 enters the spliceosome and associates with the pre-mRNA branch site facilitating the interaction of snRNP with the branch sites of u2 and u12 of the 17S u2 and the 18S u11/u12 snRNP complex. Recombinant human SF3B14 protein, fused to His-tag at

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N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MAMQAAKRAN IRLPPEVNRI LYIRNLPYKI TAEEMYDIFG KYGPIRQIRV GNTPETRGTA
YVYEDIFDA KNACDHLSTG NVCNRYLVVL YYNANRAFQK MDTKKKKEEQL KLLKEYGIN TDPPK

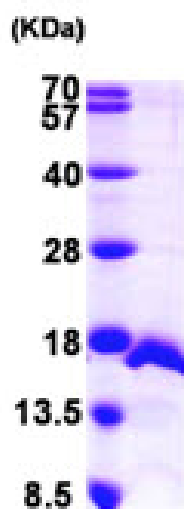
General References

Golas MM., et al. (2003) Science. 300(5621):980-4.

Will CL., et al. (2002) EMBO J. 21(18):4978-88.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)