

**SF3B14, 1-125aa, Human, His tag, E.coli**

**Cat.NO.: TP03912**

3th Edition

**Synonyms:**Splicing factor 3B, 14 kDa subunit, CGI-110, HSPC175, Ht006, P14, SAP14, SF3B14a

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

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl,5mM DTT, 1mM EDTA, 30% glycerol

**Molecular Weight:**16.7 kDa (145aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMAMQAAKRANIRLPPEVNRILYIRNLPYKITAEEYDIFGKYGPQRQIRVGNTPETR  
GTAYVVYEDIFDAKNACDHLSGFNVCNRYLVVLYYNANRAFQKMDTKKKEEQLKLLKEYGINTDPPK

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.