SF3B3 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701567
Synonyms:	SF3B3; Splicing factor 3B subunit 3; Pre-mRNA-splicing factor SF3b 130 kDa subunit; SF3b130; STAF130; Spliceosome-associated protein 130; SAP 130
Species:	Human
Source:	Sf9 insect cells
Accession:	Q15393 (F2-F1217)
Gene ID:	23450
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	SF3B3 protein plays a critical role in pre-mRNA splicing as an integral component of the splicing factor SF3B complex, a key constituent of the spliceosome. This complex is essential for the assembly of the 'A' complex, facilitating the stable binding of U2 snRNP to the branchpoint sequence in pre-mRNA. SF3B3's sequence-independent binding with SF3A/SF3B complex upstream of the branch site anchors U2 snRNP to the pre-mRNA, highlighting its pivotal role in splicing initiation. Additionally, SF3B3 may contribute to the assembly of the 'E' complex and is involved in the splicing of U12-type introns as a part of the minor spliceosome. Identified in various spliceosome complexes, including A, B, C, and E complexes, SF3B3 remains associated with the spliceosome throughout the splicing process. Within the SF3B complex, SF3B3 interacts directly with SF3B1, SF3B5, and PHF5A, demonstrating its involvement in the intricate machinery of splicing regulation. The interaction of SF3B3 with U2AF2 further underscores its role in coordinating splicing events. Additionally, SF3B3 associates with the STAGA transcription coactivator-HAT complex, interacting with SUPT3H and TAF3, further expanding its functional repertoire beyond splicing.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA