FIP1L1 Protein, Human (Sf9, His, GST)

Cat. No.:	HY-P701686
Synonyms:	FIP1L1; Pre-mRNA 3'-end-processing factor FIP1; hFip1; FIP1-like 1 protein; Factor interacting with PAP; Rearranged in hypereosinophilia
Species:	Human
Source:	Sf9 insect cells
Accession:	Q6UN15 (S2-E594)
Gene ID:	81608
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	FIP1L1, a vital component of the cleavage and polyadenylation specificity factor (CPSF) complex, plays a crucial role in pre-mRNA 3'-end formation by recognizing the AAUAAA signal sequence and facilitating interactions with poly(A) polymerase and other factors, leading to cleavage and poly(A) addition. Notably, FIP1L1 contributes to poly(A) site recognition, stimulates poly(A) addition, and binds to U-rich RNA sequence elements surrounding the poly(A) site. Its presence in the CPSF complex, alongside CPSF1, CPSF2, CPSF3, and CPSF4, highlights its integral role in the intricate process of pre-mRNA processing. FIP1L1 forms specific interactions with various partners, including CPSF1, CPSF4, CSTF2, and CSTF3, influencing the overall functionality of the CPSF complex. Moreover, FIP1L1 engages in direct interactions with AHCYL1 when phosphorylated, linking AHCYL1 to the CPSF complex and RNA. Additionally, it interacts with NUDT21/CPSF5 in a sequence-specific manner. Furthermore, FIP1L1 engages in interactions with CPSF6 and CPSF7, mediated by specific domains, contributing to the coordination between the CFIm and CPSF complexes. The interaction with PAPOLA is also noted, potentially modulated by its association with AHCYL1 (By similarity).

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

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