

IVNS1ABP Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701573
Synonyms:	IVNS1ABP; Influenza virus NS1A-binding protein; NS1-BP; NS1-binding protein; Aryl hydrocarbon receptor-associated protein 3; Kelch-like protein 39
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9Y6Y0 (I2-F642)
Gene ID:	10625
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.
Reconstitution	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	<p>The IVNS1ABP protein is intricately involved in diverse cellular functions, encompassing pre-mRNA splicing, the aryl hydrocarbon receptor (AHR) pathway, F-actin organization, and protein ubiquitination. It plays a crucial role in the dynamic organization of the actin skeleton by stabilizing actin filaments through its association with F-actin via Kelch repeats, thereby protecting cells from cell death induced by actin destabilization. Moreover, IVNS1ABP serves as a modifier of the AHR pathway, enhancing the concentration of AHR available for transcriptional activation. Additionally, it acts as a negative regulator of the BCR(KLHL20) E3 ubiquitin ligase complex, preventing ubiquitin-mediated proteolysis of PML and DAPK1, two tumor suppressors. Furthermore, IVNS1ABP inhibits pre-mRNA splicing in vitro and is implicated in the alternative splicing of influenza A virus M1 mRNA through interaction with HNRNPK, facilitating the generation of the viral M2 protein. These multifaceted functions highlight the diverse and crucial roles played by IVNS1ABP in cellular processes and responses.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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