

## ESRP1/RBM35A Protein, Human (sf9, His)

Cat. No.:	HY-P77362
Synonyms:	Epithelial splicing regulatory protein 1; RNA-binding protein 35A; RBM35A
Species:	Human
Source:	Sf9 insect cells
Accession:	Q6NXG1 (M1-I681)
Gene ID:	54845
Molecular Weight:	Approximately 77.9 kDa.

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM Tris, 300 mM NaCl, pH 7.5, 10% Glycerol, 0.5 mM TCEP. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The ESRP1/RBM35A protein operates as a crucial mRNA splicing factor, intricately regulating the generation of epithelial cell-specific isoforms. Its targeted influence is notably evident in the regulation of FGFR2-IIIb, an epithelial cell-specific isoform of FGFR2. Additionally, ESRP1/RBM35A extends its regulatory reach to key transcripts—CD44, CTNND1, and ENAH—undergoing splicing alterations during the epithelial-to-mesenchymal transition (EMT). Functioning through direct binding to specific mRNA sequences, it specifically targets GU-rich sequence motifs in the ISE/ISS-3, a cis-element regulatory region within the FGFR2 mRNA. This nuanced control over splicing extends beyond epithelial-mesenchymal transitions, as ESRP1/RBM35A also governs the splicing and expression of genes pivotal to inner ear development, auditory hair cell differentiation, and cell fate specification within the cochlear epithelium.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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