

## Recombinant Human ESRP1 Protein (Met1-Ile681), His-tagged

Cat. No. ESRP1-587H    Lot. No. (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b>     | Recombinant Human ESRP1 Protein (NP_060167.2) (Met1-Ile681) was produced by Baculovirus-Insect Cells expression system. This protein was expressed with a polyhistidine tag at the N-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>               | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>        | Met1-Ile681                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>          | Epithelial splicing regulatory protein 1 (ESRP1) is an epithelial cell-specific RNA binding protein that controls several key cellular processes, like alternative splicing and translation. Epithelial splicing regulatory protein 1 (ESRP1) has been characterized as an essential splicing factor required for the regulation of human pluripotency and differentiation. ESRP1 regulates CD44 alternative splicing during the EMT process which plays an important role in EOC carcinogenesis. In addition, ESRP1 is associated with disease prognosis in epithelial ovarian cancer (EOC). Epithelial splicing regulatory protein 1 (ESRP1) and 2 (ESRP2), epithelial cell-specific regulators of alternative splicing, are downregulated during the epithelial-mesenchymal transition (EMT). There is a critical role of the AS regulator epithelial splicing regulator protein 1 (ESRP1) for intestinal homeostasis and pathogenesis. |
| <b>Predicted N Terminal</b> | His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>                 | Lyophilized from sterile 20 mM Tris, 300 mM NaCl, pH 7.5, 10 % glycerol, 0.5 mM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | TCEP. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                               |
| <b>Molecular Mass</b> | The recombinant human ESRP1 consists of 700 amino acids and predicts a molecular mass of 77.9 kDa.                                                                                                                                                           |
| <b>Endotoxin</b>      | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                     |
| <b>Purity</b>         | > 65 % as determined by SDS-PAGE.                                                                                                                                                                                                                            |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70 centigrade.                                                                                                                                                                           |
| <b>Storage</b>        | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                               |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                |
| <b>Shipping</b>       | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## GENE INFORMATION

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| <b>Gene Name</b>       | ESRP1 epithelial splicing regulatory protein 1 [ Homo sapiens ]          |
| <b>Official Symbol</b> | ESRP1                                                                    |
| <b>Synonyms</b>        | ESRP1; FLJ20171; RNA-binding protein 35A; RNA binding motif protein 35A; |

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|-----------------|--------------|
| RBM35A; RMB35A; |              |
| Gene ID         | 54845        |
| mRNA Refseq     | NM_001034915 |
| Protein Refseq  | NP_001030087 |
| MIM             | 612959       |
| UniProt ID      | Q6NXG1       |

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