

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Insect Cells
ProteinLength	Met1-Ile681
Description	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.
Predicted N Terminal	His
Form	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.
Molecular Mass	The recombinant human ESRP1 consists of 700 amino acids and predicts a molecular mass of 77.9 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 65 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	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.
Reconstitution	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.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	ESRP1 epithelial splicing regulatory protein 1 [Homo sapiens]
Official Symbol	ESRP1
Synonyms	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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