

Active Recombinant Human EWSR1 Protein, Myc/DDK-tagged

Cat. No. EWSR1-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human Ewing sarcoma breakpoint region 1 (EWSR1), transcript variant EWS with C-terminal Myc/DDK tag, expressed in HEK293T.
Species	Human
Source	HEK293
Description	This gene encodes a multifunctional protein that is involved in various cellular processes, including gene expression, cell signaling, and RNA processing and transport. The protein includes an N-terminal transcriptional activation domain and a C-terminal RNA-binding domain. Chromosomal translocations between this gene and various genes encoding transcription factors result in the production of chimeric proteins that are involved in tumorigenesis. These chimeric proteins usually consist of the N-terminal transcriptional activation domain of this protein fused to the C-terminal DNA-binding domain of the transcription factor protein. Mutations in this gene, specifically a t(11;22)(q24;q12) translocation, are known to cause Ewing sarcoma as well as neuroectodermal and various other tumors. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1 and 14.
Bio-activity	Transmission electron microscopy; In vitro kinase assay inhibitor
Molecular Mass	68.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

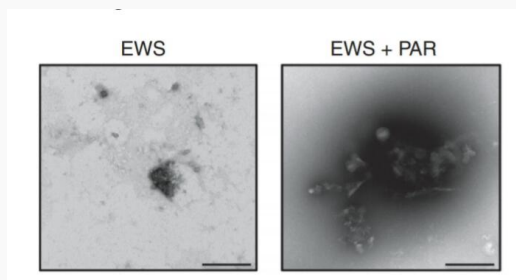
GENE INFORMATION

Gene Name	EWSR1 EWS RNA binding protein 1 [Homo sapiens (human)]
Official Symbol	EWSR1
Synonyms	EWSR1; EWS RNA binding protein 1; EWS; EWS-FLI1; bK984G1.4; RNA-binding protein EWS; EWS RNA-binding protein variant 6; Ewing sarcoma breakpoint region 1; Ewings sarcoma EWS-Fli1 (type 1) oncogene
Gene ID	2130
mRNA Refseq	NM_005243
Protein Refseq	NP_005234
MIM	133450
UniProt ID	Q01844

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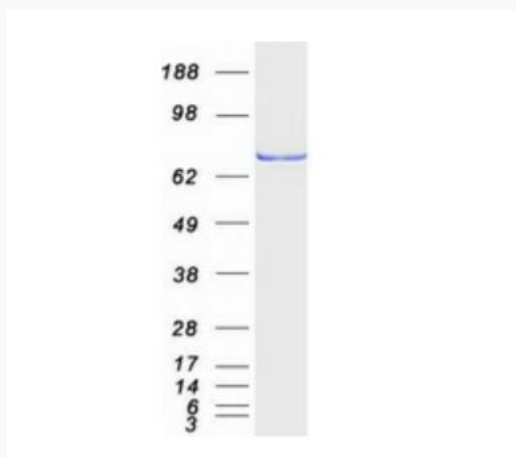
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Full-length recombinant EWS was incubated at 37 centigrade for 24 hours with or without sub-stoichiometric amounts of purified PAR. Protein aggregates were analyzed by transmission electron microscopy.

SDS-PAGE



Coomassie blue staining of purified EWSR1 protein. The protein was produced from HEK293T cells transfected with EWSR1 cDNA clone using MegaTran 2.0.