

Active Recombinant Full Length Human EZH2 Protein, C-Flag-tagged

Cat. No. EZH2-65HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human EZH2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the Polycomb-group (PcG) family. PcG family members form multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. This protein associates with the embryonic ectoderm development protein, the VAV1 oncoprotein, and the X-linked nuclear protein. This protein may play a role in the hematopoietic and central nervous systems. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	EMSA assay Binding assay (AlphaScreen) In vitro ubiquitination assay substrate
Molecular Mass	85.8 kDa
AA Sequence	MGQTGKKSEKGPVCWRKRVKSEYMRLRQLKRFRRADEVKSMFSSNRQKILERTEIL

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NQEWKQRRIQPVHI LTSVSSLRGTTRECSVTSDLDFPTQVIPLKTLNAVASVPIMYSW
 SPLQQNFMVEDETVLHNIPYMGDEVLD QDGTFFIEELIKNYDGKVVHGDRECGFINDEI
 FVELVNALGQYNDDDDDDGDDPEEREKQKDLEDHRDDK ESRPPRKFPSPDKIFE
 AISSMFPDKGTAEELKEKYKELTEQQLPALPPECTPNIDGPNKSVQREQSLHS F
 HTLFCRRCFKYDCFLHRKCNYSFHATPNTYKRKNTETALDNKPCGPQCYQHLEGAK
 EFAAALTAERIKT PPKRPGGRRRGRLPNNSSRPSTPTINVLESKDTSDREAGTET
 GGENNDKEEEEEKKDETSSSSEANSRCQ TPIKMKPNIEPPENVEWSGAEASMFRVLI
 GTYYDNFCAIARLIGTKTCRQVYEFVKESSIIAPAPAEDV DTPPRKKRKHRLWAA
 HCRKIQLKKDGSSNHVYNYQPCDHPRQPCDSSCPCVIAQNFCEKFCQCSSECQN R
 FPGCRCKAQCNKQPCCYLAVRECDPDLCLTCGAADHWDSKNVSCKNCSIQRGSK
 KHLLLAPSDVAGWG IFIKDPVQKNEFISEYCGEISQDEADRRGKVYDKYMCSFLFNL
 NNDFVVDATRKGNKIRFANHSVNPNC
 YAKVMMVNGDHRIGIFAKRAIQTGEELFFDYRYSQADALKYVGIEREMEIPTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
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 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Full Length	Full L.

GENE INFORMATION

Gene Name EZH2 enhancer of zeste 2 polycomb repressive complex 2 subunit [Homo sapiens (human)]

Official Symbol EZH2

Synonyms WVS; ENX1; KMT6; WVS2; ENX-1; EZH2b; KMT6A

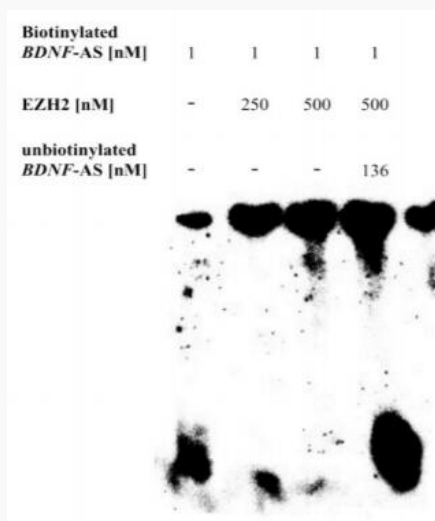
Gene ID 2146

mRNA Refseq NM_004456.5

Protein Refseq NP_004447.2

MIM 601573

UniProt ID Q15910

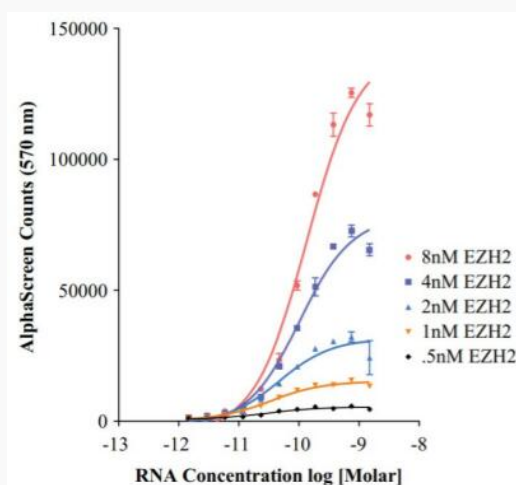


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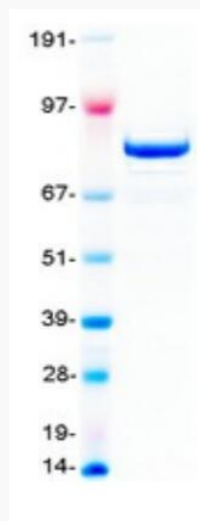
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BDNF non-protein coding antisense transcript (BDNF-AS) interacts directly with EZH2 in the RNA EMSA. Lane 1 (left) shows the migration of free biotinylated BDNF-AS. The addition of increasing concentrations of EZH2 protein (lanes 2 and 3) markedly reduced this migration. The addition of unbiotinylated BDNFAS (lane 4, right) reversed the effect of EZH2 on the migration of biotinylated BDNF-AS.



Optimization of AlphaScreen assay conditions through titrating BDNF non-protein coding antisense transcript (BDNF-AS) in the presence of different concentrations of EZH2 protein.



Coomassie blue staining of purified EZH2 protein.

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