

EZH2 recombinant protein

Recombinant EZH2 protein complex

CATALOG # AAA59636	HOST Baculovirus
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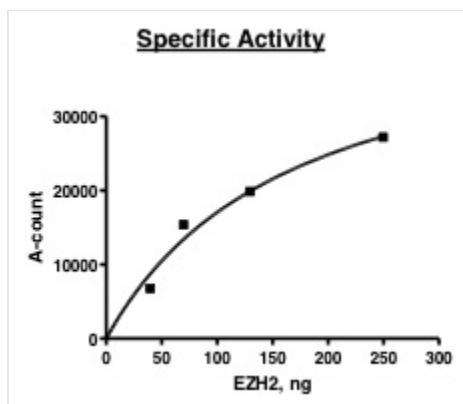
PRODUCT SYNONYMS

EZH2; Recombinant EZH2 protein complex; WVS; ENX1; EZH1; KMT6; WVS2; ENX-1; EZH2b; KMT6A; EZH2 recombinant protein

PRODUCT SPECIFICATIONS

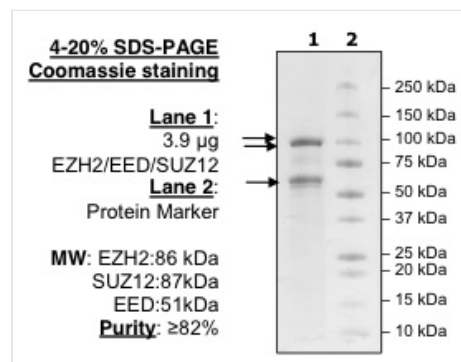
Host	Baculovirus
Form/Format	25ug recombinant EZH2 protein complex (contains EZH2, EED and Suz12 proteins) supplied in PBS (10mM Na ₂ HPO ₄ /KH ₂ PO ₄), pH7.4, 2.7mM KCl, and 138mM NaCl.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant EZH2 protein complex is suitable for use in histone methyltransferase assays. Specific Activity: 0.08 pmol/min/ug. Assay conditions: Prepare a 50ul reaction mix (20mM phosphate pH 7.4, 0.05% Tween-20, 40uM S-adenosylmethionine, and 250-2000ng enzyme complex) and add to substrate-coated wells with the substrate on a Thermo Neutravidin black plate. Incubate for 1 hr. Add anti-methyl histone H3K27 antibody and incubate 1hr. Next, incubate 1h with the HRP-labeled secondary antibody followed by chemiluminescent detection.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

EZH2 complex activity assay. Recombinant EZH2 activity measured using a fluorescent histone H3 lysine 27 methyltransferase assay.



SDS-PAGE

EZH2 protein gel. EZH2 run on an SDS-PAGE gel and stained with Coomassie blue. Arrows indicate recombinant proteins as labeled.

ADDITIONAL INFORMATION

Related Product Information for EZH2 recombinant protein	Short Description: The EZH2 protein complex contains EZH2, EED and Suz12 which are the minimal components required for histone methyltransferase activity. EZH2 is specific for H3 lysine 27, a mark of repressed regions of chromatin. Recombinant human EZH2 (accession number NM_004456, amino acids 2-end with an N-terminal His-tag, molecular weight 86 kDa) was coexpressed in a baculovirus expression system along with human EED (accession number NM_003797, amino acids 2-end with an N-terminal DYKDDDDK tag, molecular weight 51 kDa) and human Suz12 (accession number NM_015355, amino acids 2-end with an N-terminal His-tag, molecular weight 87 kDa). EZH2, EED and Suz12 are present in the PRC protein complexes that function as mediators of epigenetic transcriptional silencing. EZH2-(Enhancer of Zeste homolog 2, also designated Enx1 and SETDB1) is a human homolog of the Drosophila Enhancer of Zeste protein. It contains a SET domain that catalyzes the >mono-, di- and trimethylation of Histone H3 Lys27. Polycomb group proteins repress gene expression by binding to chromatin and locally altering chromatin structure. Deregulation of EZH2 is linked to a variety of cancers. Recombinant EZH2 protein complex can be used in histone methyltransferase (HMT) assays. Background: EZH2, EED and Suz12 are present in the PRC protein complexes that function as mediators of epigenetic transcriptional silencing. EZH2-(Enhancer of Zeste homolog 2, also designated Enx1 and SETDB1) is a human homolog of the Drosophila Enhancer of Zeste protein. It contains a SET domain that catalyzes the mono-, di- and trimethylation of Histone H3 Lys27. Polycomb group proteins repress gene expression by binding to chromatin and locally altering chromatin structure. Deregulation of EZH2 is linked to a variety of cancers.
Product Categories/Family for EZH2 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_004456
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/ezh2-recombinant-protein-baculovirus/59636>