

EZH1 recombinant protein

Recombinant EZH1 complex

CATALOG # AAA59721	HOST Baculovirus
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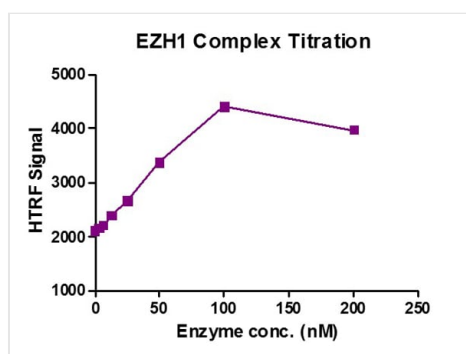
PRODUCT SYNONYMS

EZH1; Recombinant EZH1 complex; Enhancer Of Zeste 1; EC 2.1.1.43; EZH1 recombinant protein

PRODUCT SPECIFICATIONS

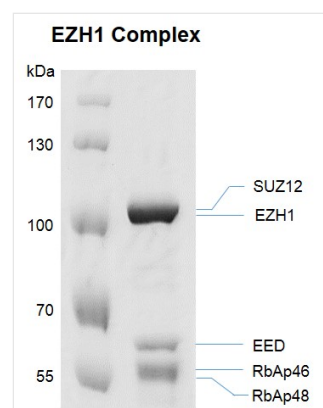
Host	Baculovirus
Purity/Purification	The recombinant protein is >95% pure by SDS-PAGE.
Form/Format	Recombinant EZH1 complex was expressed in Sf9 cells and is supplied in 25mM Hepes pH7.5, 300mM NaCl, 5% Glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant EZH1 complex is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 3.3uM H3K27me0 (16-37aa) peptide was incubated with different concentrations of recombinant EZH1 complex in reaction buffer containing 50mM TrisCl pH 8.6, 0.02% Triton X-100, 2mM MgCl2, 1mM TCEP, 100uM SAM for 3 hours at room temperature. Activity was detected by HTRF.
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

Recombinant EZH1 complex HTRF activity assay 3.3 ?M H3K27me0 (16-37aa) peptide was incubated with EZH1 complex in reaction buffer for 3 hour at room temperature. EZH1 complex was used in a HTRF assay to determine enzyme linearity. Methylated peptide (H3K27me1) was measured using H3K27me1-specific antibody.



SDS-PAGE

Recombinant EZH1 complex gel EZH1 complex was run on an 10% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for EZH1 recombinant protein	Short Description: Recombinant EZH1 complex contains full-length human EZH1 protein (accession number NP_001982.2) with N-terminal DYKDDDDK-Tag and MW = 86.3 kDa; full-length human SUZ12 (Accession No. NP_056170.2), with N-terminal 6xHis-tag and MW = 86.1 kDa; full-length human EED (Accession No. NP_003788.2), N-terminal 6xHis-tag and MW = 53.2 kDa; full-length human RbAp46 (Accession No. NP_001185648.1), N-terminal 6xHis-tag and MW = 55.3 kDa, and full-length human RbAp48 (Accession No. NP_005601.1), N-terminal 6xHis-tag and MW = 50.7 kDa, all individually expressed in Sf9 cells. The recombinant protein is >=95% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: EZH1 (Enhancer Of Zeste Homolog 1) is a Polycomb group (PcG) protein. Catalytic subunit of the PRC2/EED-EZH1 complex, which methylates 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. Able to mono-, di- and trimethylate 'Lys-27' of histone H3 to form H3K27me1, H3K27me2 and H3K27me3, respectively. Required for embryonic stem cell derivation and self-renewal, suggesting that it is involved in safeguarding embryonic stem cell identity. Compared to EZH1-containing complexes, it is less abundant in embryonic stem cells, has weak methyltransferase activity and plays a less critical role in forming H3K27me3, which is required for embryonic stem cell identity and proper differentiation.
Product Categories/Family for EZH1 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923202
NCBI GeneID	2145
NCBI Accession #	NP_001982.2; NP_056170.2; NP_003788.2; NP_001185648.1; NP_005601.1
NCBI GenBank Nucleotide #	NM_001991.3
UniProt Accession #	Q92800; O43287; Q14459; Q53XP3; A6NCH6; B4DIJ1; B4DIZ7; B4DSS2; B4E3R7
Molecular Weight	85,271 Da
NCBI Official Full Name	histone-lysine N-methyltransferase EZH1
NCBI Official Synonym Full Names	enhancer of zeste homolog 1 (Drosophila)
NCBI Official Symbol	EZH1
NCBI Official Synonym Symbols	KMT6B
NCBI Protein Information	histone-lysine N-methyltransferase EZH1; ENX-2
UniProt Protein Name	Histone-lysine N-methyltransferase EZH1
UniProt Gene Name	EZH1
UniProt Synonym Gene Names	KIAA0388
UniProt Entry Name	EZH1_HUMAN

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.