

Active Recombinant Human PRC2 Complex, Flag-tagged

Cat. No. PRC2-28H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRC2 Complex that includes full length EZH2, SUZ12, EED and RbAp46/48 (accession numbers NP_001190176.1, NP_056170, NP_003788.2, NP_002884.1, and NP_005601.1, respectively) was expressed in Sf9 and contains an N-terminal FLAG tag at the N-terminus of EZH2.
Species	Human
Source	Insect Cells
Description	PRC2 (Polycomb Repressive Complex 2) is one of the two classes Polycomb-group, or PcG proteins (the other being PRC1) that are important epigenetic determinants of stem cell identity. They play an important role in long-term epigenetic silencing of genes during cell fate determination and differentiation. PRC2 functions as a repressor of chromatin. PRC2 is required to target recruitment to specific DNA sequences (termed Polycomb Response Elements or PREs) of genomic regions to be silenced. Once associated with chromatin, the PRC2 subunit EZH2 has histone methyltransferase activity that catalyzes the trimethylation of histone H3 at lysine 27. H3K27me3 is well established as a hallmark of regions of repressed chromatin. Trimethylation of lysine 27 leads to the recruitment of PRC1 through the binding of H3K27me3 by chromodomain-containing proteins in PRC1. PRC1 is responsible for long-term gene silencing after cellular differentiation.
Form	25 mM HEPES pH 7.5, 120 mM NaCl, 5% glycerol and 0.2 mg/ml 3X FLAG peptide.

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Bio-activity	H3K27me(1-3) methyltransferase.
Molecular Mass	The molecular weights of expressed EZH2, SUZ12, EED and RbAp46/48 are 87 kDa, 83 kDa, 50.2 kDa, 47.8 kDa and 47.7 kDa, respectively.
Applications	PRC2 Complex is suitable for use in the study of enzyme kinetics, inhibitor screening and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.65 mg/ml
Full Length	Full L.

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