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## Data Sheet

### EZH2 Protein Complex

Human, Recombinant, N-terminal FLAG-Tag (EED), N-Terminal His-Tag (Rest)

**Catalog #:** 51004

**Lot #:** 161117

**Conc.:** 0.26 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol

**Stability:** At least 6 months at  $-80^{\circ}\text{C}$ . Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

**References:**

- Morin, R., *et al.* (2010). *Nature Genetics* **42**, 181 - 185
- Varambally, S. *et al.* (2008). *Science* **322 (5908)**, 1695-1699.

**Description:** Complex of human EZH2 (GenBank Accession No. NM\_004456), (a.a. 2-end) with N-terminal His tag, MW= 86 kDa, human EED (NM\_003797) (a.a. 2-end) with N-terminal Flag tag, MW= 51 kDa, human SUZ12 (NM\_015355) (a.a. 2-end) with N-terminal His tag, MW = 87 kDa, Human AEBP2 (NM\_153207) (a.a. 2-end) with N-terminal His tag, MW= 53 kDa, and human RbAp48 (NM\_005610) (a.a. 2-end) with N-terminal His tag, MW = 48 kDa, co-expressed in baculovirus expression system.

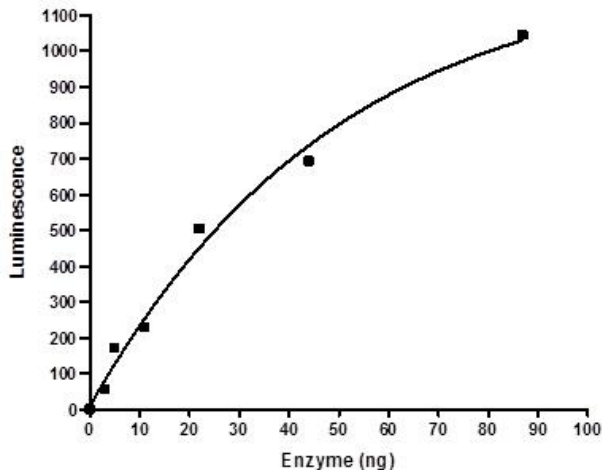
**Specific Activity:**  $\geq 0.08$  pmol/min/ $\mu\text{g}$

**Assay conditions:** 50  $\mu\text{l}$  reaction mix (20 mM phosphate buffer pH 7.4, 0.05% Tween-20, 20  $\mu\text{M}$  S-adenosylmethionine, and 50-200 ng enzyme complex) add to the wells coated with the substrate. Incubate for 1 hr. Add antibody against methylated K27 residue of histone H3, incubate 1 hr. Then, add secondary HRP-labeled antibody and incubate 30 min. Finally, add HRP chemiluminescent substrates and read luminescence.

**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

### Quality Assurance

Specific Activity



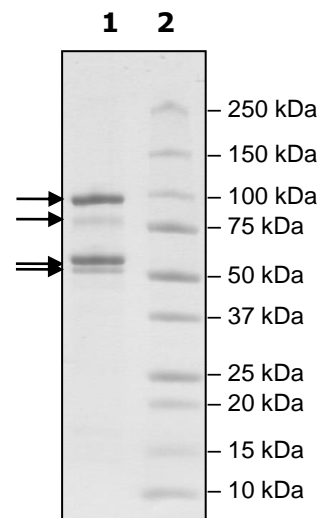
4-20% SDS-PAGE  
Coomassie staining

**Lane 1:**  
6  $\mu\text{g}$  EZH2 5-complex

**Lane 2:**  
Protein Marker

**MW:** EZH2 86 kDa  
 SUZ12 87 kDa  
 AEBP 53 kDa  
 EED 51 kDa  
 RbAp48 48 kDa

**Purity:**  $\geq 90\%$



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