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## Data Sheet

### JMJD2B (KDM4B), GST-tag

Human, Recombinant, N-terminal GST-tag

**Catalog #:** 50111

**Lot#:** 150604      **Conc.:** 0.22 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 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:**

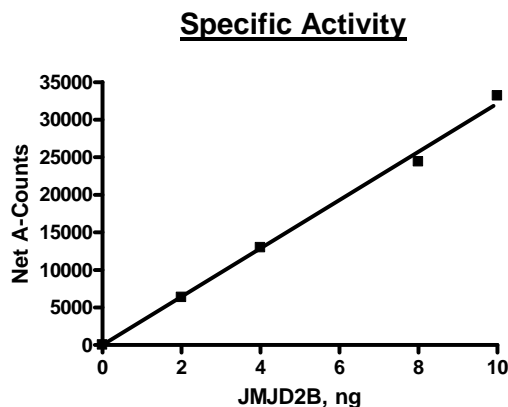
1. Fodor, B.D., *et al.* (2006). *Genes Dev.* **20(12)**: 1557–1562.
2. Beyer S., *et al.* (2008). *J. Biol. Chem.* **283(52)**:36542-52.

**Description:** Human JMJD2B, also known as JHDM3B and KDM4B (GenBank Accession No. NM\_015015), a.a. 2-500 with N-terminal GST-tag, MW=83 kDa, expressed in Sf9 cells using a Baculovirus expression system.

**Specific Activity:** 0.32 pmole/min/ $\mu\text{g}$   
 Assay conditions: 10 $\mu\text{l}$  reaction mix containing assay buffer with 20 mM HEPES (pH 7.4), 50 mM NaCl, 1mM TCEP, 500  $\mu\text{M}$   $\alpha$ -ketoglutarate, 25  $\mu\text{M}$  iron, 2mM ascorbic acid, 0.01% Tween-20, 0.5  $\mu\text{M}$  biotinylated peptide substrate, and JMJD2B (2 – 10ng) added to the wells. Add antibody against di-methylated K9 peptide. Incubate for 30 min, then Streptavidin-conjugated secondary antibody followed by Alpha Screening detection.

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

### Quality Assurance



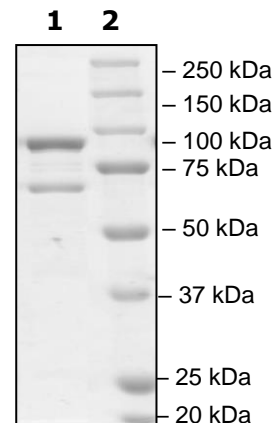
**4-20% SDS-PAGE  
 Coomassie staining**

**Lane 1:**  
 JMJD2B

**Lane 2:**  
 Protein Marker

**MW:** 83 kDa

**Purity:**  $\geq 68\%$



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