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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°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.

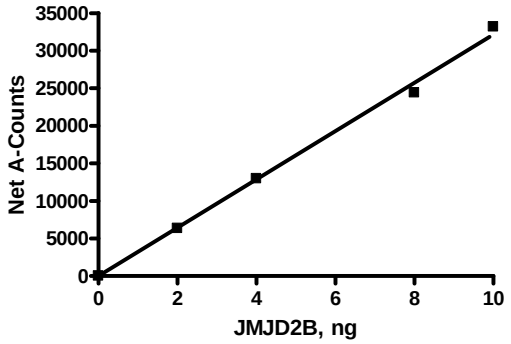
Description: Human JMJD2B, also known as JHDM3B and KDM4B (GenBank Accession No. NM_015015), a.a. 2-500 with N-terminal GST-tag, MW=83 kDa, expressed in Sf9 cells using a Baculovirus expression system.

Specific Activity: 0.32 pmole/min/µg
Assay conditions: 10µl reaction mix containing assay buffer with 20 mM HEPES (pH 7.4), 50 mM NaCl, 1mM TCEP, 500 µM α–ketoglutarate, 25 µM iron, 2mM ascorbic acid, 0.01% Tween-20, 0.5 µM 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

Specific Activity



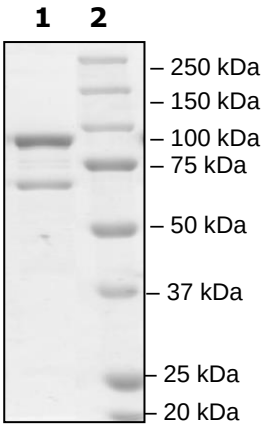
4-20% SDS-PAGE
Coomassie staining

Lane 1: **JMJD2B**

Lane 2: Protein Marker

MW: 83 kDa

Purity: ≥68%



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