**Data Sheet**

**PRMT5/MEP50, FLAG-tag**

**Description:** Human PRMT5 (GenBank Accession No. NM_006109), amino-acids 2-end, with N-terminal FLAG tag, MW=73 kDa, and human MEP50 (GenBank Accession No. NM_024102), amino-acids 2-end, with N-terminal His tag, MW=37 kDa, co-expressed in a Baculovirus-infected Sf9 cell expression system.

**Assay conditions:** 50 µl reaction mix (20 mM phosphate buffer pH 7.4, 20 µM S-adenosyl methionine, and 10-100 ng methyltransferase PRMT5) add to the wells coated with the substrate. Incubate at room temperature for 1 hr. Add antibody against methylated R3 residue of histone H4, 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.

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 80 ng/µl FLAG peptide, and 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:**

**Quality Assurance**

**Activity Test**

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<th>100</th>
<th>200</th>
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<tr>
<td>PRMT5/MEP50 (ng)</td>
<td>0</td>
<td>100</td>
<td>200</td>
<td>300</td>
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**Coomassie staining**

**Lane 1:** 8.25 µg PRMT5/MEP50

**Lane 2:** Protein Marker

**MW:**
- PRMT5: 73 kDa
- MEP50: 37.5 kDa

**Purity:** ≥89%

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