



# SZABO SCANDIC

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## Data Sheet

### PRMT5/MEP50

Human, recombinant, N-terminal FLAG-tag (PRMT5), N-terminal His-tag (MEP50)

**Catalog #:** 51045

**Lot #:** 150126      **Conc.:** 0.65 mg/ml

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

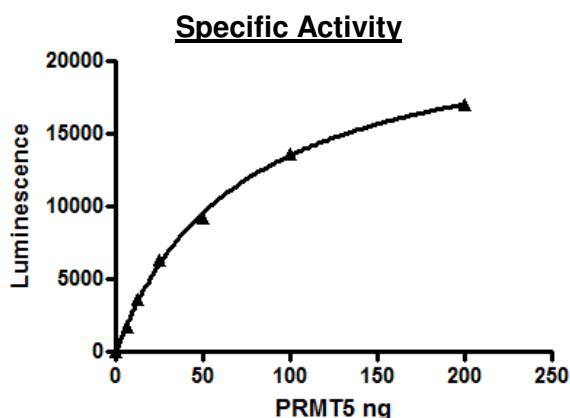
1. Zhao Q. *et al.*, *J. Nat. Struct. Mol. Biol.* **16 (3)**, 304-311 (2009).
2. Wang L *et al.*, *Mol. Cell. Biol.* **28 (20)**, 6262-6277 (2008).

**Description:** PRMT5/MEP50 complex of 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=37.5 kDa, coexpressed in Freestyle 293-F cells.

**Specific Activity:** 0.005 pmole/min/μg  
**Assay Conditions:** Add 50 μl reaction mix (20 mM phosphate buffer pH 7.4, 0.05% Tween-20, 40 μM S-adenosylmethionine, and 12.5-200 ng PRMT5) to wells coated with the substrate on a BPS Bioscience white strip-plate. 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.

## Quality Assurance



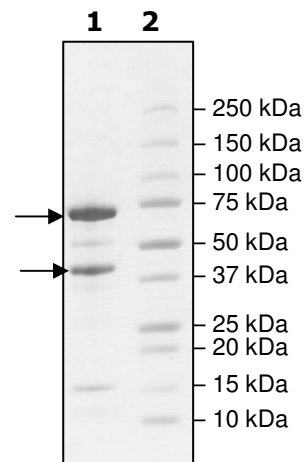
**4-20% SDS-PAGE  
 Coomassie staining**

**Lane 1:**  
 4 μg PRMT5/MEP50

**Lane 2:**  
 Protein Marker

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

**Purity:** ≥85%



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