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## Data Sheet

### SMYD2, FLAG-Tag

Human, Recombinant, N-terminal FLAG-tag

**Catalog #:** 51014

**Lot#:** 180622      **Conc.:** 0.60 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween20, 20% glycerol, 0.2mM TCEP, 80 µg/ml FLAG peptide.

**Stability:** At least 6 months at -70°C. Avoid freeze/thaw cycles.

**References:**

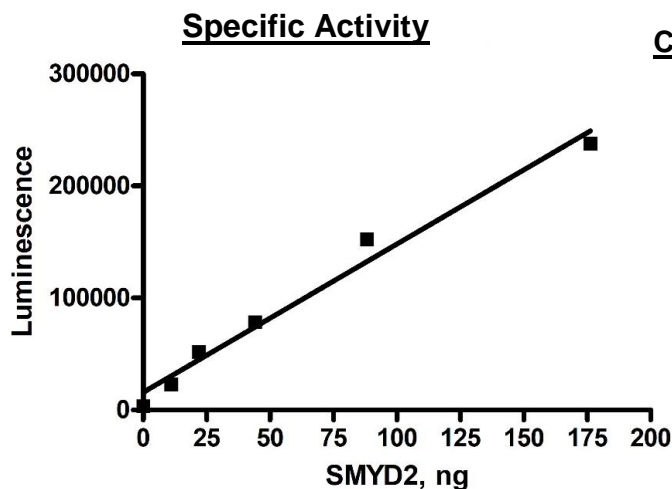
1. Abu-Farha M. et al., Mol. Cell Proteomics **7 (3)**, 560-572 (2008).
2. Brown M.A. et al., Mol. Cancer **5 (26)**, (2006).

**Description:** Human SMYD2, also known as KMT3C, SET And MYND Domain Containing 2 and Lysine N-Methyltransferase 3C, GenBank Accession No. NM\_020197, a.a. 2-433(end) with N-terminal FLAG-tag, expressed in a Baculovirus infected Sf9 cell expression system, MW= 51 kDa.

**Specific Activity:** .004 pmole/min/µg  
 Assay Conditions: For standard, H3, 21-44 K36 (1Me)-Biotin was coated onto a neutravidin plate at varying concentrations. For test lots, H3,21-44-Biotin was coated onto a neutravidin plate at 0.4 µg/ml. Reaction mixture contained 50 mM Tris buffer pH 8.8, 5 mM MgCl<sub>2</sub>, 1 mM TCEP, 0.05% Tween-20, 10 µM S-adenosylmethionine, and various amounts of SMYD2—incubated for overnight at room temperature. Followed by 1 hour incubation with primary antibody against H3 K36 (1Me), and 30 minute incubation with secondary antibody. Luminescence was developed with HRP substrate A and B (Pierce).

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

## Quality Assurance



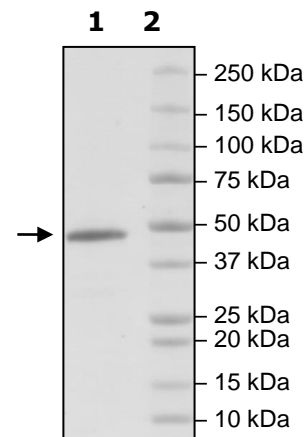
**4-20% SDS-PAGE**  
**Coomassie staining**

**Lane 1:**  
SMYD2

**Lane 2:**  
Protein Marker

**Purity:** ≥90%

**MW:** 51 kDa



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