



# SZABO SCANDIC

Part of Europa Biosite

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Data Sheet

### JMJD2D, GST-tag

Human, Recombinant, N-terminal GST-tag  
**Catalog #:** 50117  
**Lot #:** 150408-G2      **Conc.:** 0.35 mg/ml

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

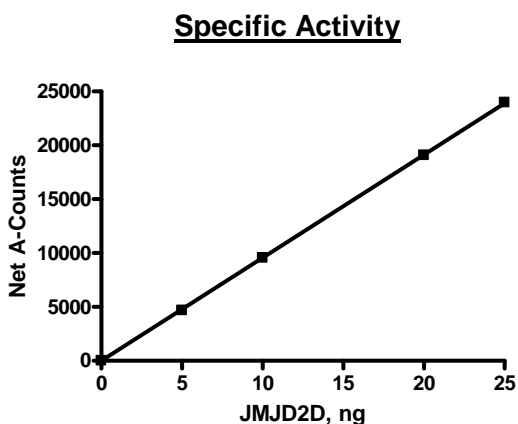
1. Katoh M., Int J Oncol. 2004 Jun; **24(6)**:1623-8.
2. Shin S. et al., Biochem Biophys Res Commun. 2007 Feb 23; **353(4)**:973-7.

**Description:** Human JMJD2D (GenBank Accession No. NM\_018039) (amino-acids 2-354) with N-terminal GST tag, MW=67 kDa, expressed in a Baculovirus infected Sf9 cell expression system.

**Specific Activity:**  $\geq 0.14$  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, 1 mM TCEP, 500  $\mu\text{M}$   $\alpha$ -ketoglutarate, 25  $\mu\text{M}$  iron, 2 mM ascorbic acid, 0.01% Tween-20, 0.5  $\mu\text{M}$  biotinylated peptide substrate, and JMJD2D (5 – 25 ng) added to the wells. Add antibody against demethylated K<sub>9</sub> 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.

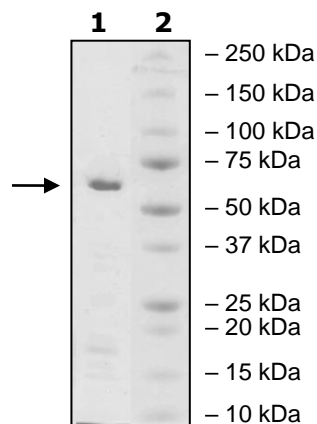
## Quality Assurance



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

**Lane 1:**  
 2  $\mu\text{g}$  JMJD2D  
**Lane 2:**  
 Protein Marker

**MW:** 67 kDa  
**Purity:**  $\geq 90\%$





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**Sequence:**

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYI  
DGDVKLTQSMAIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSR IAYSKDFETLK  
VDFLSKLPEMLKMFKDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLV  
CFKKRIEAI PQIDKYLKSSKYIAWPLQG WQATFGGGDHLVPRGSGSIQRPETMKS KAN  
CAQNPNCNIMIFHPTKEEFNDFDKYIAYMESQGAHRAGLAKIIPPKEWKARETYDNISEI  
LIATPLQQVASGRAGVFTQYHKKKKAMTVGEYRHLANSKKYQTPPHQNFEDLERKYW  
KNRIYNSPIYGADISGSLFDENTKQWNLGHLGTIQDLLEKECGVIEGVNTPYLYFGMW  
KTTFAWHTEDMDLYSINYLHLGEPKTWYVVPPEHGQRLERLARELFPGSSRGCGAFLR  
HKVALISPTVLKENGIPFNRI TQEAGEFMVTFPYGYHAGFNHGFNCAEAINFATPRWIDY  
GKMASQCSCGEARVTF SMDAFVRILQPERYDLWKR GQDRAVVDHMEPRVPA

Red: GST-tag

Blue: Thrombin cleavage site

Black: JMJD2A (a.a. 2-354)

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