

## General Spermidine (SMD) ELISA Kit | SMD elisa kit

General Spermidine (SMD) ELISA Kit

CATALOG #  
**AAA22871**

REACTIVITY  
**General**

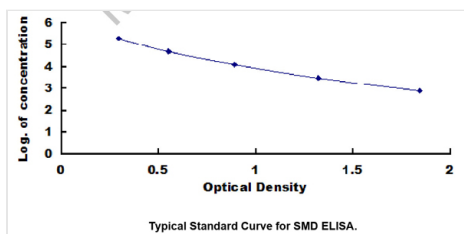
### PRODUCT SYNONYMS

Spermidine (SMD); General Spermidine (SMD) ELISA Kit; SMD elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of SMD. No significant cross-reactivity or interference between SMD and analogues was observed.                                                                                                                                                                                                                                                                                                                    |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                 | Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Range         | 781.25-200,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sensitivity             | < 284.74pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SMD were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                      |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SMD were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                    |
| Preparation and Storage | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Related Product Information for SMD elisa kit | <p>Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to SMD has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled SMD and unlabeled SMD (Standards or samples) with the pre-coated antibody specific to SMD. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of SMD in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of SMD in the sample.</p> <p>Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of SMD in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> |
| References                                    | <p><a href="#">Elevated spermidine serum levels in mild cognitive impairment, a potential biomarker of progression to Alzheimer dementia, a pilot study; J Clin Neurosci; 2022 Jun;100:169-174.; PMID: 35487023</a>; Zohara Sternberg; Department of Neurology, Stroke Center, Buffalo Medical Center, Buffalo, NY, USA. Electronic address: zs2@buffalo.edu.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/general-elisa-kits/spermidine-smd/22871>