

Spermidine (SMD) CLIA Kit | SMD clia kit

General species Spermidine (SMD)(Competitive CLIA) CLIA Kit

CATALOG # AAA189613	REACTIVITY General species	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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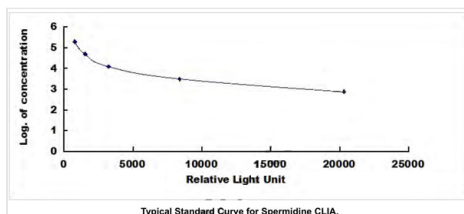
PRODUCT SYNONYMS

Spermidine (SMD); General species Spermidine (SMD)(Competitive CLIA) CLIA Kit; CLIA Kit for Spermidine (SMD); SMD/Spermidine; SMD clia kit

PRODUCT SPECIFICATIONS

Reactivity	General species
Specificity	This assay has high sensitivity and excellent specificity for detection of spermidine. No significant cross-reactivity or interference between spermidine 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	< 284.75pg/mL
Applicable Applications for SMD clia kit	CLIA (Chemiluminescence Immunoassay)
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level spermidine 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 spermidine were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/ -20 degree C for long-term (within shelf life). 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. 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

Related Product Information for SMD clia kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to spermidine. A competitive inhibition reaction is launched between biotin labeled spermidine and unlabeled spermidine (Standards or samples) with the pre-coated antibody specific to spermidine. 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 spermidine in the sample. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is reverse proportional to the spermidine level in the sample or standard. Intended Uses: The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of spermidine in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for SMD clia kit	Enzyme & Kinase; Infection immunity

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-clia-kits/spermidine-smd/189613>