

Meropenem (Mer) ELISA Kit | Mer elisa kit

General species Meropenem (Mer)(Competitive EIA) ELISA Kit

CATALOG # AAA150956	REACTIVITY General species	APPLICATIONS ELISA
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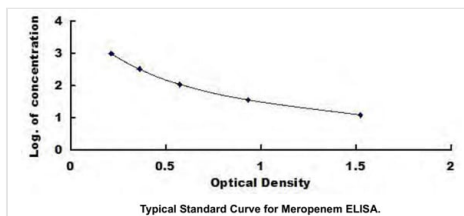
PRODUCT SYNONYMS

Meropenem (Mer); General species Meropenem (Mer)(Competitive EIA) ELISA Kit; ELISA Kit for Meropenem (Mer); Mer/Meropenem; Merrem; Mer elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General species
Specificity	This assay has high sensitivity and excellent specificity for detection of meropenem. No significant cross-reactivity or interference between meropenem and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	12.35-1,000pg/mL
Sensitivity	< 4.94pg/mL
Applicable Applications for Mer elisa kit	ELISA
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level meropenem 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 meropenem 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 Mer elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to meropenem has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled meropenem and unlabeled meropenem (Standards or samples) with the pre-coated antibody specific to meropenem. 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 meropenem in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of meropenem in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of meropenem in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for Mer elisa kit	Metabolic pathway

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/meropenem-mer/150956>