

General Inositol Triphosphate (IP3) ELISA Kit | IP3 elisa kit

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CATALOG #
AAA68345

REACTIVITY
General

PRODUCT SYNONYMS

Inositol Triphosphate (IP3); General Inositol Triphosphate (IP3) ELISA Kit; IP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of IP3. No significant cross-reactivity or interference between IP3 and analogues was observed.
Assay Type	Quantitative Competitive
Samples	General serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.13ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IP3 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 IP3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

ADDITIONAL INFORMATION

Related Product Information for IP3 elisa kit

Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to IP3 has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled IP3 and unlabeled IP3 (Standards or samples) with the pre-coated antibody specific to IP3. 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 IP3 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of IP3 in the sample.

Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of IP3 in general serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids.

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.