

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

Universal IP3 (Inositol Triphosphate) ELISA Kit

CATALOG #
AAA27496

REACTIVITY
General

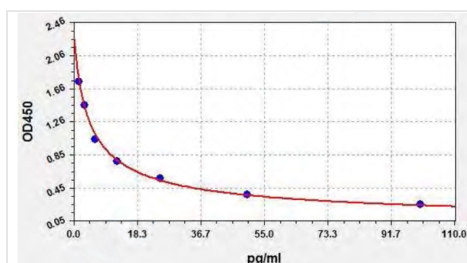
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	Specifically recognize IP3, no obvious cross reaction with other analogues
Assay Type	Competitive
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	1.563-100pg/ml
Sensitivity	0.938pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IP3 elisa kit	Background: Inositol-1,4,5-trisphosphate [Ins(1,4,5)P3] is a second messenger for many growth factors, hormones, and neurotransmitters. It is produced in cells by phospholipase C (PLC)-mediated hydrolysis of phosphatidyl inositol- 4,5-bisphosphate. Ins(1,4,5)P3 binds to one of several inositol-1,4,5-trisphosphate receptors (IP3 receptors), each containing a calcium channel domain. Binding of Ins(1,4,5)P3 to the receptor releases calcium from intracellular stores, leading to a dramatic, but transient, increase in the cytosolic concentration of free calcium Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with IP3. During the reaction, IP3 in the sample or standard competes with a fixed amount of IP3 on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to IP3. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm. The concentration of IP3 in the samples is then determined by comparing the OD of the samples to the standard curve. The concentration of the target substance was inversely proportional to the OD450 value.
--	--

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/general-elisa-kits/ip3-inositol-triphosphate/27496>