

Mouse prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) ELISA Kit | PTGS2 elisa kit

Mouse cyclooxygenase-2, COX-2 ELISA Kit

CATALOG #

AAA79913

REACTIVITY

Mouse

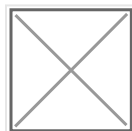
PRODUCT SYNONYMS

prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase); Mouse cyclooxygenase-2; COX-2 ELISA Kit; COX-2; COX2; GRIPGHS; PGG/HS; PGHS-2; PHS-2; hCox-2; cyclooxygenase 2b; prostaglandin G/H synthase and cyclooxygenase; prostaglandin-endoperoxide synthase 2; PTGS2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse PTGS2. No significant cross-reactivity or interference between Mouse PTGS2 and analogues was observed.
Sequence Length	604
Samples	Serum, plasma, tissue homogenates
Detection Range	78 pg/ml-5000 pg/ml
Sensitivity	19.5 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Biosynthesis/Metabolism
Protein Biological Process 2	Lipogenesis and lipometabolism
Protein Biological Process 3	Fatty acid biosynthesis
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PTGS2 elisa kit

Introduction: Cyclooxygenase (COX) is an enzyme (EC 1.14.99.1) that is responsible for formation of important biological mediators called prostanoids, including prostaglandins, prostacyclin and thromboxane. Pharmacological inhibition of COX can provide relief from the symptoms of inflammation and pain. Non-steroidal anti-inflammatory drugs, such as aspirin and ibuprofen, exert their effects through inhibition of COX. The names "prostaglandin synthase (PHS)" and "prostaglandin endoperoxide synthetase (PES)" are still used to refer to COX. At present, three COX isoenzymes are known: COX-1, COX-2, and COX-3. COX-2 is undetectable in most normal tissues. It is an inducible enzyme, becoming abundant in activated macrophages and other cells at sites of inflammation. Selectivity for COX-2 is the main feature of celecoxib, rofecoxib, and other members of this drug class. Because COX-2 is usually specific to inflamed tissue, there is much less gastric irritation associated with COX-2 inhibitors, with a decreased risk of peptic ulceration. The selectivity of COX-2 does not seem to negate other side-effects of NSAIDs, most notably an increased risk of renal failure, and there is evidence that indicates that there might be an increase in the risk for heart attack, thrombosis, and stroke through a increase in thromboxane. The sale of Rofecoxib (brand name Vioxx) was banned in 2004 because of such concerns. Some other COX-2 selective NSAIDs, such as celecoxib, and etoricoxib, are still on the market.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to COX-2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for COX-2 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain COX-2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of COX-2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31981525
NCBI GeneID	19225
NCBI Accession #	NP_035328.2
NCBI GenBank Nucleotide #	NM_011198.3
UniProt Accession #	Q05769; Q543K3
Molecular Weight	69,013 Da
NCBI Official Full Name	prostaglandin G/H synthase 2
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 2
NCBI Official Symbol	Ptgs2
NCBI Official Synonym Symbols	COX2; Cox-2; PHS-2; Pghs2; TIS10; PGHS-2
NCBI Protein Information	prostaglandin G/H synthase 2; PES-2; PHS II; gripghs; PGH synthase 2; cyclooxygenase 2; cyclooxygenase-2; prostaglandin H2 synthase 2; glucocorticoid-regulated inflammatory cyclooxygenase; macrophage activation-associated marker protein P71/73
UniProt Protein Name	Prostaglandin G/H synthase 2
UniProt Gene Name	Ptgs2
UniProt Synonym Gene Names	Cox-2; Cox2; Pghs-b; Tis10; COX-2; PGH synthase 2; PGHS-2
UniProt Entry Name	PGH2_MOUSE

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/ptgs2-mouse-elisa-kits/prostaglandin-endoperoxide-synthase-2-prostaglandin-g-h-synthase-and-cyclooxygenase/79913>