Thromboxane-A2 Synthase (TXA2S) ELISA Kit for Duck

PRODUCT OVERVIEW

Product Name	Thromboxane-A2 Synthase (TXA2S), ELISA Kit
Full Product Name	Duck Thromboxane-A2 Synthase (TXA2S) ELISA Kit
Product Gene Name	TXA2S elisa kit
Species Reactivity	Duck
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	52,287 Da
OMIM	231095
Related Product Information for TXA2S elisa kit	MBS9352482 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Thromboxane-A2 Synthase (TXA2S) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TXA2S. The ELISA analytical biochemical technique of the MBS9352482 kit is based on TXA2S antibody-TXA2S antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TXA2S antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TXA2S. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of TXA2S elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TXA2S. It may not necessarily be applicable to this product.

NCBI GI #	195972900
NCBI GeneID	6916
NCBI Accession #	NP_112246.2
UniProt Secondary Accession #	O14987; Q16843; Q16844; Q8IUN1; Q96CN2; Q9GZW4; Q9HD77; B4DJG6; E7EMU9; E7EP08; E7ESB5
UniProt Related Accession #	P24557
GenBank Nucleotide #	NM_030984.3
NCBI Official Full Name	thromboxane-A synthase isoform 2
NCBI Official Synonym Full Names	thromboxane A synthase 1
NCBI Official Symbol	TBXAS1
NCBI Official Synonym Symbols	TS; TXS; CYP5; THAS; TXAS; CYP5A1; GHOSAL; BDPLT14
UniProt Protein Name	Thromboxane-A synthase
UniProt Synonym Protein Names	Cytochrome P450 5A1
UniProt Gene Name	TBXAS1
UniProt Synonym Gene Names	CYP5; CYP5A1; TXA synthase; TXS
UniProt Entry Name	THAS_HUMAN

NCBI Protein Information	thromboxane-A synthase
NCBI Summary for TXA2S	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. However, this protein is considered a member of the cytochrome P450 superfamily on the basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostglandin H2 to thromboxane A2, a potent vasoconstrictor and inducer of platelet aggregation. The enzyme plays a role in several pathophysiological processes including hemostasis, cardiovascular disease, and stroke. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]
UniProt Comments for TXA2S	TBXAS1: Defects in TBXAS1 are the cause of Ghosal hematodiaphyseal dysplasia (GHDD). GHDD is a rare autosomal recessive disorder characterized by increased bone density with predominant diaphyseal involvement and aregenerative corticosteroid-sensitive anemia. Aregenerative anemia is characterized by bone marrow failure, so that functional marrow cells are regenerated slowly or not at all. Defects in TBXAS1 are the cause of thromboxane synthetase deficiency (TBXAS1 deficiency). It is characterized by hemorrhagic diathesis. Belongs to the cytochrome P450 family. Protein type: Isomerase; Membrane protein, integral; Lipid Metabolism - arachidonic acid; Oxidoreductase; Membrane protein, multi-pass; EC 5.3.99.5 Chromosomal Location of Human Ortholog: 7q34-q35 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: heme binding; iron ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; thromboxane-A synthase activity Biological Process: arachidonic acid metabolic process; cyclooxygenase pathway; icosanoid metabolic process; xenobiotic metabolic process Disease: Bleeding Disorder, Platelet-type, 14; Ghosal Hematodiaphyseal Dysplasia
Research Articles on TXA2S	**1.** Single nucleotide polymorphisms of TBXAS1 are associated with susceptibility to gout in ethnic Han males population.
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