Steroid Sulfatase Isozyme S (STS) ELISA Kit for Horse

PRODUCT OVERVIEW

Product Name	Steroid Sulfatase Isozyme S (STS), ELISA Kit
Full Product Name	Horse Steroid Sulfatase Isozyme S ELISA Kit
Product Gene Name	STS elisa kit
Species Reactivity	Horse
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	65,492 Da
OMIM	300747
3D Structure	ModBase 3D Structure for P08842
Related Product Information for STS elisa kit	MBS068692 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Steroid Sulfatase Isozyme S (STS) 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 STS. The ELISA analytical biochemical technique of the MBS068692 kit is based on STS antibody-STS antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect STS antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, STS. 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 STS 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 STS. It may not necessarily be applicable to this product.

NCBI GI #	53831991
NCBI GeneID	412
NCBI Accession #	NP_000342.2
UniProt Primary Accession #	P08842
UniProt Secondary Accession #	B2RA47
UniProt Related Accession #	P08842
GenBank Nucleotide #	NM_000351.4
NCBI Official Full Name	steryl-sulfatase
NCBI Official Synonym Full Names	steroid sulfatase (microsomal), isozyme S
NCBI Official Symbol	STS
NCBI Official Synonym Symbols	ES; ASC; XLI; ARSC; SSDD; ARSC1
UniProt Protein Name	Steryl-sulfatase
UniProt Synonym Protein Names	Arylsulfatase C; ASC; Steroid sulfatase; Steryl-sulfate sulfohydrolase
Protein Family	Steryl-sulfatase

UniProt Gene Name	STS
UniProt Synonym Gene Names	ARSC1; ASC
UniProt Entry Name	STS_HUMAN
NCBI Protein Information	steryl-sulfatase; arylsulfatase C; estrone sulfatase; steryl-sulfate sulfohydrolase
NCBI Summary for STS	The protein encoded by this gene catalyzes the conversion of sulfated steroid precursors to estrogens during pregnancy. The encoded protein is found in the endoplasmic reticulum, where it acts as a homodimer. Mutations in this gene are known to cause X-linked ichthyosis (XLI). [provided by RefSeq, Jul 2008]
UniProt Comments for STS	STS: Conversion of sulfated steroid precursors to estrogens during pregnancy. Defects in STS are the cause of ichthyosis X-linked (IXL). Ichthyosis X-linked is a keratinization disorder manifesting with mild erythroderma and generalized exfoliation of the skin within a few weeks after birth. Affected boys later develop large, polygonal, dark brown scales, especially on the neck, extremities, trunk, and buttocks. Belongs to the sulfatase family. Protein type: Lipid Metabolism - androgen and estrogen; Membrane protein, integral; Membrane protein, multi-pass; Hydrolase; EC 3.1.6.2 Chromosomal Location of Human Ortholog: Xp22.32 Cellular Component: Golgi apparatus; endoplasmic reticulum membrane; intracellular membrane-bound organelle; membrane; lysosome; endoplasmic reticulum; endoplasmic reticulum lumen; plasma membrane; integral to membrane; endosome Molecular Function: metal ion binding; sulfuric ester hydrolase activity; steryl-sulfatase activity Biological Process: epidermis development; sphingolipid metabolic process; cellular protein metabolic process; glycosphingolipid metabolic process; female pregnancy; post-translational protein modification; steroid catabolic process Disease: Ichthyosis, X-linked
Research Articles on STS	**1.** results suggest that steroid sulfatase expression can be decreased in the process of large intestinal carcinogenesis
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