Hormone Sensitive Lipase (HSL) ELISA Kit for Cat

PRODUCT OVERVIEW

Product Name	Hormone Sensitive Lipase (HSL), ELISA Kit
Full Product Name	Cat Hormone Sensitive Lipase ELISA Kit
Product Gene Name	HSL elisa kit
Species Reactivity	Cat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	116,598 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (42905666..42931578, complement). Location: 19q13.2
OMIM	151750
3D Structure	ModBase 3D Structure for Q05469
Related Product Information for HSL elisa kit	MBS097060 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Hormone Sensitive Lipase (HSL) 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 HSL. The ELISA analytical biochemical technique of the MBS097060 kit is based on HSL antibody-HSL antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect HSL antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, HSL. 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 HSL 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 HSL. It may not necessarily be applicable to this product.

NCBI GI #	21328446
NCBI GeneID	3991
NCBI Accession #	NP_005348.2
UniProt Primary Accession #	Q05469
UniProt Secondary Accession #	Q3LRT2; Q6NSL7
UniProt Related Accession #	Q05469
GenBank Nucleotide #	NM_005357.2
NCBI Official Full Name	hormone-sensitive lipase
NCBI Official Synonym Full Names	lipase, hormone-sensitive
NCBI Official Symbol	LIPE
NCBI Official Synonym Symbols	HSL; LHS
UniProt Protein Name	Hormone-sensitive lipase
Protein Family	Hormone-sensitive lipase

UniProt Gene Name	LIPE
UniProt Synonym Gene Names	HSL
UniProt Entry Name	LIPS_HUMAN
NCBI Protein Information	hormone-sensitive lipase; hormone-sensitive lipase testicular isoform
NCBI Summary for HSL	The protein encoded by this gene has a long and a short form, generated by use of alternative translational start codons. The long form is expressed in steroidogenic tissues such as testis, where it converts cholesteryl esters to free cholesterol for steroid hormone production. The short form is expressed in adipose tissue, among others, where it hydrolyzes stored triglycerides to free fatty acids. [provided by RefSeq, Jul 2008]
UniProt Comments for HSL	HSL: hormone sensitive lipase is a lipolytic enzyme of the 'GDXG' family. Plays a rate limiting step in triglyceride lipolysis. In adipose tissue and heart, it primarily hydrolyzes stored triglycerides to free fatty acids, while in steroidogenic tissues, it principally converts cholesteryl esters to free cholesterol for steroid hormone production. Rapidly activated by cAMP-dependent phosphorylation under the influence of catecholamines. Dephosphorylation and inactivation are controlled by insulin. Protein type: Lipase; EC 3.1.1.79 Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: lipid particle; caveola; cytosol Molecular Function: triacylglycerol lipase activity; hormone-sensitive lipase activity; protein binding; protein kinase binding Biological Process: cholesterol metabolic process; triacylglycerol catabolic process; diacylglycerol catabolic process; protein amino acid phosphorylation; lipid catabolic process; long-chain fatty acid catabolic process Disease: Abdominal Obesity-metabolic Syndrome 4
Research Articles on HSL	**1.** M. leprae suppresses lipid degradation through inhibition of HSL expression.
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