Insulin Like Protein 6 (INSL6) ELISA Kit for Donkey

PRODUCT OVERVIEW

Product Name	Insulin Like Protein 6 (INSL6), ELISA Kit
Full Product Name	Donkey Insulin Like Protein 6 ELISA Kit
Product Gene Name	INSL6 elisa kit
Species Reactivity	Donkey
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	11,981 Da
OMIM	125852
3D Structure	ModBase 3D Structure for P01308
Related Product Information for INSL6 elisa kit	MBS079656 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Insulin Like Protein 6 (INSL6) 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 INSL6. The ELISA analytical biochemical technique of the MBS079656 kit is based on INSL6 antibody-INSL6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect INSL6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, INSL6. 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 INSL6 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 INSL6. It may not necessarily be applicable to this product.

NCBI GI #	124617
NCBI GeneID	3630
NCBI Accession #	P01308.1
UniProt Primary Accession #	P01308
UniProt Secondary Accession #	Q5EEX2
UniProt Related Accession #	P01308
NCBI Official Full Name	Insulin
NCBI Official Synonym Full Names	insulin
NCBI Official Symbol	INS
NCBI Official Synonym Symbols	ILPR; IRDN; IDDM1; IDDM2; MODY10
UniProt Protein Name	Insulin
Protein Family	Insulin-like peptide
UniProt Gene Name	INS
UniProt Entry Name	INS_HUMAN

NCBI Protein Information	insulin; proinsulin; preproinsulin; insulin-dependent diabetes mellitus 2
NCBI Summary for INSL6	After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into three peptides: the B chain and A chain peptides, which are covalently linked via two disulfide bonds to form insulin, and C-peptide. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. A multitude of mutant alleles with phenotypic effects have been identified. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]
UniProt Comments for INSL6	Insulin: Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. Heterodimer of a B chain and an A chain linked by two disulfide bonds. Belongs to the insulin family. Protein type: Secreted, signal peptide; Hormone; Secreted Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: extracellular space; endoplasmic reticulum lumen; Golgi lumen; extracellular region Molecular Function: identical protein binding; insulin-like growth factor receptor binding; protein binding; protease binding; hormone activity; insulin receptor binding Biological Process: positive regulation of nitric oxide biosynthetic process; glucose homeostasis; positive regulation of vasodilation; activation of NF-kappaB transcription factor; negative regulation of protein oligomerization; positive regulation of glucose import; regulation of protein localization; cell-cell signaling; negative regulation of gluconeogenesis; acute-phase response; regulation of transmembrane transporter activity; negative regulation of NAD(P)H oxidase activity; positive regulation of mitosis; positive regulation of nitric-oxide synthase activity; activation of protein kinase B; negative regulation of acute inflammatory response; glucose metabolic process; positive regulation of lipid biosynthetic process; positive regulation of cell growth; positive regulation of protein amino acid autophosphorylation; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of cell differentiation; negative regulation of protein catabolic process; regulation of amino acid metabolic process; negative regulation of glycogen catabolic process; wound healing; positive regulation of glycogen biosynthetic process; positive regulation of cellular protein metabolic process; glucose transport; regulation of protein secretion; regulation of transcription, DNA-dependent; positive regulation of MAPKKK cascade; negative regulation of lipid catabolic process; negative regulation of vasodilation; positive regulation of cell proliferation; negative regulation of proteolysis; negative regulation of protein secretion; MAPKKK cascade; negative regulation of fatty acid metabolic process; alpha-beta T cell activation; endocrine pancreas development; G-protein coupled receptor protein signaling pathway; positive regulation of protein kinase B signaling cascade; cellular protein metabolic process; fatty acid homeostasis; positive regulation of glycolysis; insulin receptor signaling pathway; energy reserve metabolic process; positive regulation of insulin receptor signaling pathway; regulation of insulin secretion; positive regulation of DNA replication; positive regulation of cytokine secretion; positive regulation of cell migration Disease: Diabetes Mellitus, Insulin-dependent, 2; Diabetes Mellitus, Permanent Neonatal; Hyperproinsulinemia; Maturity-onset Diabetes Of The Young, Type 10
Research Articles on INSL6	**1.** Data suggest that resistin not only contributes directly to metabolic syndrome but also contributes indirectly to early atherosclerosis via insulin resistance and up-regulation of blood insulin/C-reactive protein levels in obese children in China.
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