





## Horse insulin (INS) ELISA kit

Product Code	CSB-EL011742HO
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	INS
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	insulin
Uniprot No.	P01310
Alias	ILPR, IRDN, OTTHUMP00000011162 OTTHUMP00000196038 proinsulin
<b>Product Type</b>	ELISA Kit
Immunogen Species	Equus caballus (Horse)
Protein Biological Process 3	Carbohydrate metabolism
Sample Types	serum, plasma, tissue homogenates
<b>Detection Range</b>	1.56 nIU/mL-100 nIU/mL
Sensitivity	0.39 nIU/mL
Assay Time	1-5h
Sample Volume	50-100ul
<b>Detection Wavelength</b>	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	INS
Tag Info	quantitative
<b>Protein Description</b>	Sandwich
Description	This Horse INS ELISA Kit was designed for the quantitative measurement of Horse INS protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.56 nIU/mL-100 nIU/mL and the sensitivity is 0.39 nIU/mL.
Target Details	After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into two chains (peptide A and peptide B) that are covalently linked via two disulfide bonds. Binding of this mature form of insulin to the insulin receptor (INSR) stimulates glucose uptake. A variety of mutant alleles with changes in the coding region have been identified. There is a read-through gene, INS-IGF2,

## **CUSABIO TECHNOLOGY LLC**











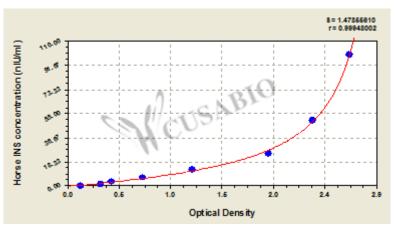
	which overlaps with this gene at the 5 region and with the IGF2 gene at the 3 region.						
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.						
Linearity	To assess the linearity of the assay, samples were spiked with high concentrations of horse INS in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.						
		Sample		Serum(n=	4)		
	1:1000	Average %		99			
		Range %		96-102			
	1:2000 Average		%	87			
	1.2000	Range %		84-91			
	1:4000	Average	%	95			
		Range %		90-99			
	4.0000	Average	%	98			
	1:8000	Range %	, 0	94-102			
Recovery	The recovery of horse INS spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.						
	Sample Type		Average % Recovery		Range		
	Serum (n=5)		88		84-92		
	EDTA plasma	TA plasma (n=4)			100-108		
Typical	These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.						











nIU/mI OD1 OD2 Average Corrected

100 2.659 2.698 2.679 2.546 50 2.353 2.301 2.327 2.194 25 1.922 1.904 1.913 1.780 12.5 1.179 1.198 1.189 1.056  $6.25 \quad 0.702\,0.732\,0.717$ 0.584 3.12 0.411 0.435 0.423 0.290 1.56 0.305 0.330 0.318 0.185 0 0.132 0.134 0.133

**Msds** 

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL011742HO.pdf","filename":"MSDS"}}