

Rat Insulin like Growth Factor1 ELISA Kit | IGF1 elisa kit

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CATALOG #
AAA85005

REACTIVITY
Rat

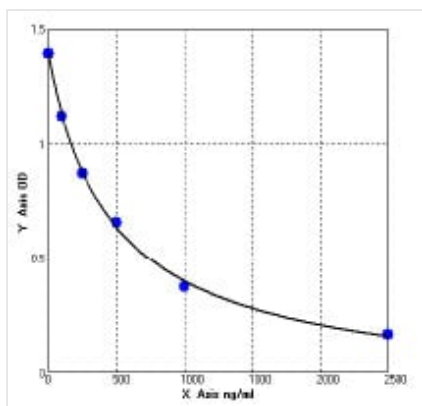
PRODUCT SYNONYMS

Insulin like Growth Factor1; Rat Insulin like Growth Factor1 ELISA Kit; IGF1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of IGF-1. No significant cross-reactivity or interference between IGF-1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between IGF-1 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IGF1 elisa kit	Intended Uses: This IGF-1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat IGF-1. This ELISA kit for research use only! Principle of the Assay: IGF-1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-IGF-1 antibody and an IGF-1-HRP conjugate. The assay sample and buffer are incubated together with IGF-1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the IGF-1 concentration since IGF-1 from samples and IGF-1-HRP conjugate compete for the anti-IGF-1 antibody binding site. Since the number of sites is limited, as more sites are occupied by IGF-1 from the sample, fewer sites are left to bind IGF-1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The IGF-1 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for IGF1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	163659903
NCBI GeneID	3479
NCBI Accession #	NP_001104755.1
NCBI GenBank Nucleotide #	NM_001111285.1
Molecular Weight	17,762 Da
NCBI Official Full Name	insulin-like growth factor I isoform 3 preproprotein
NCBI Official Synonym Full Names	insulin-like growth factor 1 (somatomedin C)
NCBI Official Symbol	IGF1
NCBI Official Synonym Symbols	IGFI; IGF-I; IGF1A
NCBI Protein Information	insulin-like growth factor I; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor IA; insulin-like growth factor IB
UniProt Protein Name	Insulin-like growth factor I
UniProt Gene Name	IGF1
UniProt Synonym Gene Names	IBP1; IGF-I; MGF
UniProt Entry Name	IGF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.