

IGF-1 elisa kit

Chinese Hamster IGF-1 PicoKine ELISA Kit

CATALOG # AAA124777	REACTIVITY Hamster There is detectable cross-reactivity with IGF-2< 1%.	APPLICATIONS ELISA
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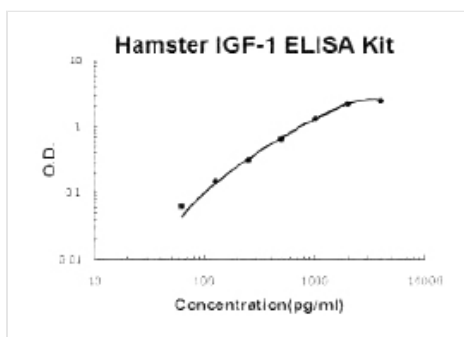
PRODUCT SYNONYMS

IGF-1; Chinese Hamster IGF-1 PicoKine ELISA Kit; Insulin-like growth factor I; IGF-I; Somatomedin; Igf1; Igf-1; IGF-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Hamster There is detectable cross-reactivity with IGF-2< 1%.
Specificity	Natural and recombinant 215 Chinese Hamster IGF-1
Sequence Length	158
Assay Type	Quantitative Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	<5pg/ml
Applicable Applications for IGF-1 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration weretested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration weretested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IGF-1 elisa kit	Principle of the Assay: 215 Chinese Hamster IGF-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Chinese Hamster IGF-1 has been precoated onto 96-well plates. Standards(Expression system for standard: E.coli; Immunogen sequence: G49-A118) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IGF-1 specific for Chinese Hamster IGF-1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the 215 Chinese Hamster IGF-1 amount of sample captured in plate. Background: Insulin-like growth factor 1(IGF-1) that was once called somatomedin C, is a polypeptide protein hormone similar in molecular structure to insulin. It plays an important role in childhood growth and continues to have anabolic effects in adults. Chinese hamster IGF1 is a single chain 70-amino acid polypeptide cross-linked by 3 disulfide bridges, with a calculated molecular mass of 7.6 kD. The IGF1 gene, mapped on 12q22-q24.1, contains 5 exons. Exons 1-4 encode the 195-amino acid precursor(IGF1B), and exons 1, 2, 3, and 5 encode the 153-residue peptide(IGF1A). The structure of IGF1 resembles that of IGF2. And the IGF1 and IGF2 genes have complex structures with multiple promoters. The expression of both genes is regulated at the levels of transcription, RNA processing, and translation. IGF-1 is produced primarily by the liver as an endocrine hormone as well as in target tissues in a paracrine/autocrine fashion. Moreover, approximately 98% of IGF-1 is always bound to one of 6 binding proteins(IGF-BP). Furthermore, IGF-1 is one of the most potent natural activators of the AKT signaling pathway, a stimulator of cell growth and multiplication and a potent inhibitor of programmed cell death.
Product Categories/Family for IGF-1 elisa kit	Signal Transduction; Growth Factors/Hormones; insulin/insulin-like; Cancer; Growth Factors; insulin and insulin-like; Developmental Biology; post embryonic development; aging

NCBI AND UNIPROT INFORMATION

NCBI GI #	163659885
NCBI GeneID	24482
NCBI Accession #	NP_001075946.2
NCBI GenBank Nucleotide #	NM_001082477.2
UniProt Accession #	P08025; P08024
Molecular Weight	17079 MW
NCBI Official Full Name	insulin-like growth factor I isoform a preproprotein
NCBI Official Synonym Full Names	insulin-like growth factor 1
NCBI Official Symbol	Igf1
NCBI Official Synonym Symbols	IGF
NCBI Protein Information	insulin-like growth factor I
UniProt Protein Name	Insulin-like growth factor I
UniProt Gene Name	Igf1
UniProt Synonym Gene Names	Igf-1; IGF-I

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.

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Online datasheet: <https://www.aaabiotech.com/hamster-elisa-kits/igf-1/124777>