

Rat insulin-like growth factor 2 (somatomedin A) ELISA Kit | IGF2 elisa kit

Rat Insulin-like growth factor 2, IGF-2 ELISA Kit

CATALOG #
AAA79953

REACTIVITY
Rat

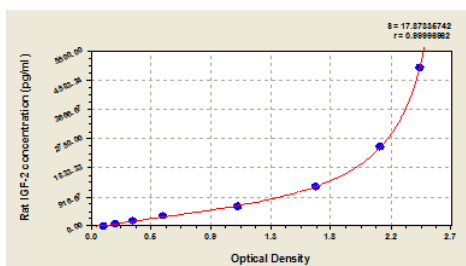
PRODUCT SYNONYMS

insulin-like growth factor 2 (somatomedin A); Rat Insulin-like growth factor 2; IGF-2 ELISA Kit; C11orf43; FLJ22066; FLJ44734; INSIGF; pp9974; OTTHUMP00000011018; OTTHUMP00000011157; insulin-like growth factor 2; insulin-like growth factor II; insulin-like growth factor type 2; putative insulin-like; IGF2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat IGF2. No significant cross-reactivity or interference between Rat IGF2 and analogues was observed.
Sequence Length	180
Detection Range	78 pg/ml-5000 pg/ml
Sensitivity	19.5 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Biosynthesis/Metabolism
Protein Biological Process 2	glyconeogenesis and glycometabolism
Protein Biological Process 3	Carbohydrate metabolism
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IGF2 elisa kit

Introduction: Insulin-like growth factor 2 (IGF-2) is one of three protein hormones that share structural similarity to insulin. In humans, the IGF2 gene is located on chromosome 11p15.5, a region which contains numerous imprinted genes. In mice this homologous region is found at distal chromosome 7. In both organisms, Igf2 is imprinted, with expression resulting favourably from the paternally inherited allele. IGF-2 exerts its effects by binding to the IGF-1 receptor. IGF2 may also bind to the IGF-2 receptor (also called the cation-independent mannose 6-phosphate receptor), which acts as a signalling antagonist; that is, to prevent IGF2 responses.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to IGF-2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin conjugated antibody preparation specific for IGF-2 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain IGF-2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of IGF-2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	297747332
NCBI GeneID	24483
NCBI Accession #	NP_001177091.1
NCBI GenBank Nucleotide #	NM_001190162.1
UniProt Accession #	P01346
Molecular Weight	20,086 Da
NCBI Official Full Name	insulin-like growth factor II isoform 2 preproprotein
NCBI Official Synonym Full Names	insulin-like growth factor 2
NCBI Official Symbol	Igf2
NCBI Official Synonym Symbols	IGFII; RNIGF2
NCBI Protein Information	insulin-like growth factor II; MSA; IGF-II; multiplication-stimulating activity; insulin-like growth factor II (IGF-II); multiplication-stimulating polypeptide; Insulin-like growth factor II (somatomedin A); insulin-like growth factor II isoform 2 variant 4 preprotein
UniProt Protein Name	Insulin-like growth factor II
UniProt Gene Name	Igf2
UniProt Synonym Gene Names	Igf-2; IGF-II; MSA
UniProt Entry Name	IGF2_RAT

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://stage.aaabiotech.com/igf2-rat-elisa-kits/insulin-like-growth-factor-2-somatomedin-a/79953>