

## ARG81651 Rat IGF2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81651-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81651-002	Standard	2 X 10 ng/vial	4°C
ARG81651-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81651-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81651-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81651-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81651-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81651-008	25X Wash buffer	20 ml	4°C
ARG81651-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81651-010	STOP solution	10 ml (Ready to use)	4°C
ARG81651-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81651 Rat IGF2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat IGF2 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Predict Reactivity	Hm
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with IGF1.
Target Name	IGF2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml

Sample Volume	100 µl
Precision	Intra-Assay CV: 4.6%; Inter-Assay CV: 6.1%
Alternate Names	Somatomedin-A; Insulin-like growth factor II; IGF-II; PP9974; GRDF; C11orf43; T3M-11-derived growth factor

## Application Instructions

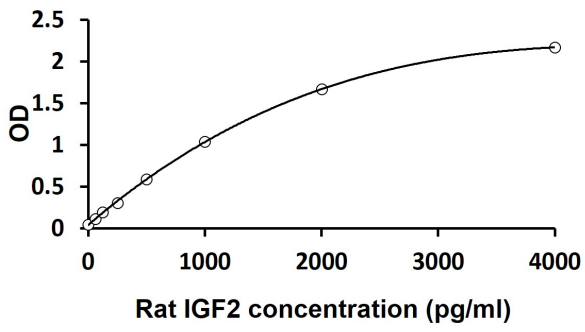
Assay Time	~ 5 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	IGF2
Gene Full Name	insulin-like growth factor 2
Background	This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilms tumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]
Function	<p>The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent mitogens for cultured cells. IGF-II is influenced by placental lactogen and may play a role in fetal development.</p> <p>Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3. [UniProt]</p>
Highlight	<p>Related products:</p> <p><a href="#">IGF2 antibodies</a>; <a href="#">IGF2 ELISA Kits</a>; <a href="#">IGF2 recombinant proteins</a>;</p> <p>New ELISA data calculation tool:</p> <p><a href="#">Simplify the ELISA analysis by GainData</a></p>
PTM	<p>O-glycosylated with core 1 or possibly core 8 glycans. Thr-96 is a minor glycosylation site compared to Thr-99.</p> <p>Proteolytically processed by PCSK4, proIGF2 is cleaved at Arg-128 and Arg-92 to generate big-IGF2 and mature IGF2. [UniProt]</p>



ARG81651 Rat IGF2 ELISA Kit standard curve image

ARG81651 Rat IGF2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.