ARG82324
Rat IGF1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82324-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82324-002	Standard	2 X 10 ng/vial	4°C
ARG82324-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82324-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82324-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82324-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82324-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82324-008	25X Wash buffer	20 ml	4°C
ARG82324-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82324-010	STOP solution	10 ml (Ready to use)	4°C
ARG82324-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82324 Rat IGF1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat IGF1 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	IGF1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.7% Inter-Assay CV: 6.7%

Alternate Names	MGF; Insulin-like growth factor I; Mechano growth factor; Somatomedin-C; IGFI; IGF-I

Application Instructions

Assay Time	~ 5 hours

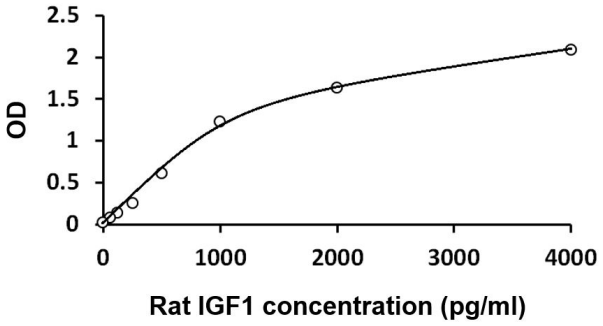
Properties

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	IGF1
Gene Full Name	insulin-like growth factor 1 (somatomedin C)
Background	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]
Function	The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose transport in rat bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake. May play a role in synapse maturation. [UniProt]
Highlight	Related products: IGF1 antibodies; IGF1 ELISA Kits; IGF1 Duos / Panels; IGF1 recombinant proteins; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Cellular Localization	Secreted. [UniProt]

Images



ARG82324 Rat IGF1 ELISA Kit standard curve image

ARG82324 Rat IGF1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.