ARG80495
Human IGF1 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG80495 Human IGF1 ELISA Kit is suitable for the quantification of IGF-I in human serum and plasma (EDTA, heparin). Due to the high cross reactivity with IGF-I from other mammalian species, it can also be used as a assay for determination of IGF-I in primates, cattle, pig, sheep, horse, donkey, goat, dog, cat, rabbit and guinea pig, however for rat, mouse and chicken derived samples the kit is not suited.
Tested Reactivity	Hu
Predict Reactivity	Cat, Ctl, Dnk, Goat, Gpig, Hrs, NHuPrm, Pig, Rb, Sheep
Species Does Not React With	Ms, Rat, Chk
Tested Application	ELISA
Target Name	IGF1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	0.091 ng/ml
Sample Type	Serum and plasma (EDTA, heparin).
Standard Range	2 - 50 ng/ml
Sample Volume	20 µl
Alternate Names	MGF; Insulin-like growth factor I; Mechano growth factor; Somatomedin-C; IGFI; IGF-I

Application Instructions

Assay Time	1 h, 30 min (RT/shaker), 15 min

Properties

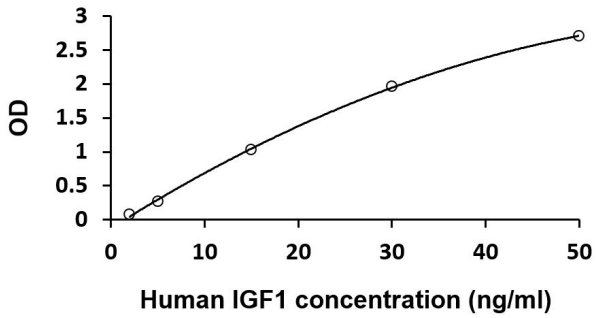
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory 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. Several transcript variants encoding different isoforms have been found

	for this gene.[provided by RefSeq, Mar 2009]
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
Research Area	Cancer kit; Developmental Biology kit; Signaling Transduction kit

Images



ARG80495 Human IGF1 ELISA Kit standard curve image

ARG80495 Human IGF1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.