

ARG80702 Mouse / Rat IGF1 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG80702 Mouse / Rat IGF1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse and Rat IGF1 in serum and plasma (EDTA, heparin, citrate).
Tested Reactivity	Ms, Rat
Tested Application	ELISA
Target Name	IGF1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	less than 0.029 ng/ml
Sample Type	Serum and plasma (EDTA, heparin, citrate).
Standard Range	0.5 - 18 ng/ml
Sample Volume	50 µl
Alternate Names	Igf-1; Igf-I; Somatomedin; Insulin-like growth factor I; MGF; Mechano growth factor; Somatomedin-C; IGF-I; IGF-I

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

Database links	GeneID: 16000 Mouse GeneID: 24482 Rat Swiss-port # P05017 Mouse Swiss-port # P08025 Rat
Gene Symbol	Igf1
Gene Full Name	insulin-like growth factor 1
Background	This gene encodes a member of the insulin-like growth factor (IGF) family of proteins that promote growth and development during fetal and postnatal life. This gene is predominantly expressed in the liver and the encoded protein undergoes proteolytic processing to generate a disulfide-linked mature polypeptide. Transgenic disruption of this gene in mice results in reduced postnatal survival and severe growth retardation. Mice lacking the encoded protein exhibit generalized organ hypoplasia including underdevelopment of the central nervous system and developmental defects in bone, muscle and reproductive systems. Alternative splicing results in multiple transcript variants encoding different

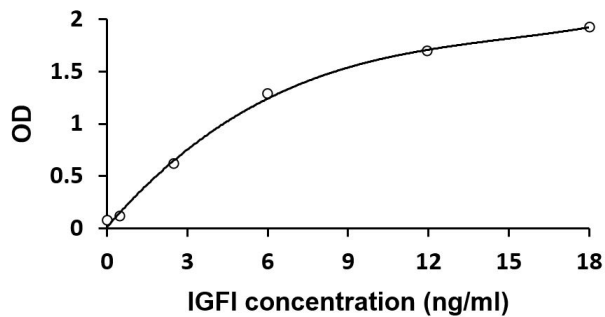
isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

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 (By similarity). [UniProt]

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Images



ARG80702 Mouse/Rat IGFI ELISA Kit standard curve image

ARG80702 Mouse/Rat IGFI ELISA Kit results of a typical standard run with optical density reading at 450 nm.