# ARG83141
# Hamster IGF1 ELISA Kit

Package: 96 wells
Store at: 4°C

## Summary

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| Product Description | ARG83141 Hamster IGF1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Hamster in Serum, Plasma, Cell culture supernatants. |
| Tested Reactivity | Hm |
| Tested Application | ELISA |
| Specificity | There is no detectable cross-reactivity with other relevant proteins. |
| Target Name | IGF1 |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 10 pg/ml |
| Detection Range | 62.5 pg/ml - 4,000 pg/ml |
| Sample Type | Serum, Plasma, Cell culture supernatants. |
| Precision | Intra-Assay CV: 5.1%<br>Inter-Assay CV: 6.3% |
| Alternate Names | MGF; Insulin-like growth factor I; Mechano growth factor; Somatomedin-C; IGFI; IGF-I |

## Application Instructions

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| Assay Time | ~ 5 hours |

## Properties

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| 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

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| 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] |

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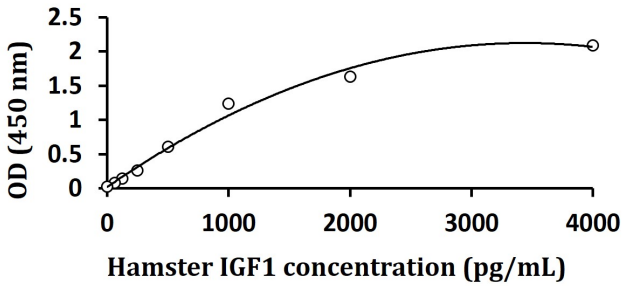
| Function | The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose 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:<br>IGF1 antibodies; IGF1 ELISA Kits; IGF1 Duos / Panels; IGF1 recombinant proteins;<br>New ELISA data calculation tool:<br>Simplify the ELISA analysis by GainData |
| Cellular Localization | Secreted. [UniProt] |

## Images




ARG83141 Hamster IGF1 ELISA Kit standard curve image

ARG83141 Hamster IGF1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.