

## Rat Insulin-like growth factor I ELISA Kit (2 plates)

- Catalogue No.:** BEK-2150-2P
- Description:** The rat Insulin-like growth factor I (IGF-I) Kit is a sandwich ELISA. The capture antibody is a monoclonal rat IGF-I antibody pre-coated onto the 96-well strip plates provided in the kit. Rat test samples and standards of known IGF-I concentration are added to these wells and allowed to complex with the bound IGF-I antibody. A biotinylated rat IGF-I polyclonal antibody is then added. This detection antibody binds to the antigen thus completing the sandwich. After washing, an enzyme Avidin-Biotin-Peroxidase complex (ABC) is added which binds to the second antibody. The peroxidase substrate TMB is added to induce a coloured reaction product. The intensity of this coloured product is directly proportional to the concentration of IGF-I present in the samples. The purpose of this kit is the in-vitro quantitative determination of rat IGF-I in samples such as sera, plasma, tissue lysates and cell culture supernates. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.
- Batch No.:** See product labels
- Other Names:** IGF1; Igf1; IGF-I; IGF-1; IGF1; Insulin-like growth factor 1;
- Accession:** P08025 IGF1\_RAT;
- Specificity:** Rat Insulin-like growth factor I.
- Cross-reactivity:** The cross reactivity with IGF-2 is < 1%.
- Storage:** Store at 2-8C
- Specific References:**
- Aikawa Y. et al. (2019) "Jump Exercise and Food Restriction on Bone Parameters in Young Female Rats." *Calcif Tissue Int.* [Epub ahead of print]. Application: Rat serum.
- Duarte AI. et al. (2018) "Dual Therapy with Liraglutide and Ghrelin Promotes Brain and Peripheral Energy Metabolism in the R6/2 Mouse Model of Huntington's Disease." *Sci Rep.* 8(1):8961. Application: Rat cortex homogenate.
- Candeias E. et al. (2017) "Brain GLP-1/IGF-1 Signaling and Autophagy Mediate Exendin-4 Protection Against Apoptosis in Type 2 Diabetic Rats." *Mol Neurobiol.* [Epub ahead of print]. Application: Rat cortex homogenate.
- Candeias E. et al. (2016) "Middle-Aged Diabetic Females and Males Present Distinct Susceptibility to Alzheimer Disease-like Pathology." *Mol Neurobiol.* [Epub ahead of print]. Application: Rat cortex homogenate.
- Grosheva M. et al. (2016) "Comparison of trophic factors' expression between paralyzed and recovering muscles after facial nerve injury. A quantitative analysis in time course." *Exp Neurol.* 279:138-148. Application: Rat muscle tissue lysate.
- Kit components:** The ELISA kit box contains 2 x 96-well pre-coated strip plates, protein standards, detection reagents, substrate buffer and detailed protocols.

**Range:**

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FOR RESEARCH USE ONLY

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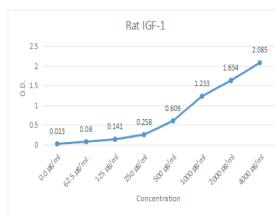
62.5 pg/mL - 4,000 pg/mL

**Sensitivity:** < 5 pg/ml

**Kit protocol:** Please refer to our online product listing for current protocol/MSDS versions.

IX: Typical Standard Curve (for reference only, not to be used for actual data)

Concentration pg/ml	0.0 pg/ml	62.5 pg/ml	125 pg/ml	250 pg/ml	500 pg/ml	1000 pg/ml	2000 pg/ml	4000 pg/ml
O.D.	0.023	0.080	0.141	0.258	0.609	1.233	1.834	2.085



This standard curve is for demonstration purposes only. A standard curve should be generated for each assay.

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