FSH (Rodent) ELISA Kit

Catalog # KA2330 Size 1 Kit

Specification

Product Description	FSH (Rodent) ELISA Kit is an immunoassay for the quantitative determination of follicle-stimulating h ormone concentrations in rodent serum/plasma.
Suitable Sample	Plasma, Serum
Sample Volume	100 uL
Label	HRP-conjugate
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	1 to 25 ng/mL
Reactivity	Rodents
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C. For best results, please store the components as described in the protocol.

Applications

- Quantification

Publication Reference

- The modulatory role of thymoquinone in boldenone undecylenate induced testicular tissue damage: oxidative stress, inflammatory markers and androgen receptor dysregulation expression in adult male rats.

  Noha A Mowaad, Marwa El-Sayed El-Shamarka, Eman Refaat Youness, Eman Gomaa, Noha S E Bayomi.

  Journal of Complementary & Integrative Medicine 2026 Jun; 0:0.

  Application: ELISA, Quant, Rat, Serum

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- Carvacrol ameliorates cyclophosphamide-induced rat premature ovarian failure and uterine fibrosis via regulating PI3K/AKT/FOXO3a signaling pathway.

  Zeinab A El-Gendy, Seham Samir Soliman, Mohamed S Aly, Sara M Baraka.

  Journal of ovarian research 2025 Dec; 18(1):291.

  Application: Quant, Rat, Serum

- Chlorogenic Acid Alleviates Letrozole-Induced Polycystic Ovary Syndrome in Mice by Modulating Inflammatory Mediators and Antioxidant Signaling Pathways.

  Seyed Sobhan Bahreiny, Layasadat Khorsandi, Khojasteh Hoseinynejad, Akram Ahangarpour.

  Journal of Reproductive Immunology 2025 Nov; 173:104805.

  Application: ELISA, Quant, Mice, Serum

- Perimenopausal state oestradiol to progesterone imbalance drives Alzheimer's risk via ERRα dysregulation and energy dyshomeostasis.

  Jacquelyne Ka-Li Sun, Amy Zexuan Peng, Ronald P Hart, Karl Herrup, Deng Wu, Genper Chi-Ngai Wong, Hei-Man Chow

  Nat Commun 2025 Nov; 16(1):11546.

- Moringa oleifera leaves aqueous extract mitigates nicotine-induced reproductive toxicity in male rats.

  Ahmed Mohamed Ibrahim, Ahmed Emam Dakrory, Amel Ramadan Omar, Aya A Mahmoud.

  Reproductive biology 2025 Oct; 26(1):101093.

  Application: Quant, Human, Serum

- Anacyclus pyrethrum enhances fertility in cadmium-intoxicated male rats by improving sperm functions.

  Aya A Mahmoud, Mennat Allah M Shaaban, Wesam T Basal.

  BMC complementary medicine and therapies 2024 Nov; 24(1):409.

  Application: Quant, Rat, Serum

- Cyclophosphamide-induced testicular injury: the role of chrysin in mitigating iron overload and ferroptosis.

  Dalia O Saleh, Nesma M E Abo El Nasr, Yosra A Hussien, Marawan Abd El-Baset, Kawkab A Ahmed.

  Naunyn-Schmiedeberg's Archives of Pharmacology 2024 Nov; 0:0.

  Application: ELISA, Quant, Rat, Blood

- Metabolome classification of Tongkat Ali (Eurycoma longifolia jack) and its commercial products via UHPLC-QTOF-MS-MS and its protective effect against 5-flurouracil-Induced testicular toxicity in male rats.

  Manar A Eissa, Mohamed A Farag, Dalia O Saleh, Marwa E Shabana, Rania F Abou El-Ezz, Dina M El-Kersh.

  Journal of Ethnopharmacology 2024 Oct; 337(Pt 2):118904.

  Application: ELISA, Quant, Rats, Serum

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- Thiacloprid impairs reproductive functions of male Wistar rats.

  Aya Abdel Nasser Mahmoud, Ebtehal Altohamy Ahmed, Amel Ramadan Omar.

  Naunyn-Schmiedeberg's Archives of Pharmacology 2024 Mar; [Epub].

  Application: Quant, Rat, Serum

- Eugenol alleviates acrylamide-induced rat testicular toxicity by modulating AMPK/p-AKT/mTOR signaling pathway and blood-testis barrier remodeling.

  Dalia O Saleh, Sara M Baraka, Gehad A Abdel Jaleel, Azza Hassan, Omar A Ahmed-Farid.

  Scientific Reports 2024 Jan; 14(1):1910.

  Application: Quant, Rat, Rat serum

- Switching from high-fat diet to normal diet ameliorate BTB integrity and improve fertility potential in obese male mice.

  Wenjing Zhang, Zhenhua Tian, Xiangyu Qi, Pengcheng Chen, Qian Yang, Qingbo Guan, Jifeng Ye, Chunxiao Yu.

  Scientific Reports 2023 Aug; 13(1):14152.

  Application: ELISA, Mouse, Mouse serum

- The Palliative and Antioxidant Effects of Hesperidin against Lead-Acetate-Induced Testicular Injury in Male Wistar Rats.

  Rasha Abu-Khudir, Hayfa Habes Almutairi, Sahar S Abd El-Rahman, Karim Samy El-Said

  Biomedicines 2023 Aug; 11(9):0.

  Application: ELISA

- Environmentally relevant doses of endocrine disrupting chemicals affect male fertility by interfering with sertoli cell glucose metabolism in mice.

  Elikanah Olusayo Adegoke, Md Saidur Rahman, Shehreen Amjad, Won-Ki Pang, Do-Yeal Ryu, Yoo-Jin Park, Mung-Geol Pang.

  Chemosphere 2023 Jun; 337:139277.

  Application: Quant, Mouse, Mouse serum

- 17α-estradiol does not adversely affect sperm parameters or fertility in male mice: implications for reproduction-longevity trade-offs.

  José V V Isola, Gabriel B Veiga, Camila R C de Brito, Joao A Alvarado-Rincón, Driele N Garcia, Bianka M Zanini, Jéssica D Hense, Arnaldo D Vieira, Michael Garratt, Bernardo G Gasperin, Augusto Schneider, Michael B Stout.

  GeroScience 2022 Jun; [Epub].

  Application: Quant, Mouse, Mouse plasma

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- DHA-Enriched Fish Oil Ameliorates Deficits in Cognition Associated with Menopause and the APOE4 Genotype in Rodents.

  Matthew G Pontifex, Anneloes Martinsen, Rasha N M Saleh, Glenn Harden, Chris Fox, Michael Muller, David Vauzour, Anne-Marie Minihane.

  Nutrients 2022 Apr; 14(9):1698.

  Application: Quant, Mouse, Serum

- Physiological Roles of Red Carrot Methanolic Extract and Vitamin E to Abrogate Cadmium-Induced Oxidative Challenge and Apoptosis in Rat Testes: Involvement of the Bax/Bcl-2 Ratio.

  Ahmed Abdel-Wahab, Kamel M. A. Hassanin, Ahmed A. Mahmoud, Walaa I. E. Abdel-Badeea, Abdel-Razik H. Abdel-Razik, Eman Zekry Attia, Usama Ramadan Abdelmohsen, Rabie L. Abdel Aziz, Agnieszka Najda, Ibtesam S. Alanazi, Khalaf F. Alsharif Mohamed M. Abdel-Daim, Mohamed O. Mahmoud.

  Antioxidants 2021 Oct; 10(11):1653.

  Application: ELISA, Rat, Rat serum

- APOE4 genotype exacerbates the impact of menopause on cognition and synaptic plasticity in APOE-TR mice.

  Matthew G Pontifex, Anneloes Martinsen, Rasha Noureldin M Saleh, Glenn Harden, Noemi Tejera, Michael Müller, Chris Fox, David Vauzour, Anne-Marie Minihane.

  FASEB Journal 2021 May; 35(5):e21583.

  Application: Quant, Mouse, Mouse serum

- CARF promotes spermatogonial self-renewal and proliferation through Wnt signaling pathway.

  Wenhao Cui, Xiaoli He, Xiaohong Zhai, Huan Zhang, Yuanwei Zhang, Fei Jin, Xiaomin Song, Dianqing Wu, Qinghua Shi, Lin Li.

  Cell Discovery 2020 Nov; 6(1):85.

  Application: Quant, Mouse, Mouse serum

- In vivo and in vitro activation of dormant primordial follicles by EGF treatment in mouse and human.

  Jiawei Zhang, Lei Yan, Yibo Wang, Shuo Zhang, Xueqiang Xu, Yanli Dai, Shidou Zhao, Zhen Li, Yan Zhang, Guoliang Xia, Yingying Qin, Hua Zhang.

  Clinical and Translational Medicine 2020 Sep; 10(5):e182.

  Application: Quant, Mouse, Mouse serum

- FSHR ablation induces depression-like behaviors.

  Wen-Kai Bi, Shan-shan Shao, Zhi-Wei Li, Yong-Wei Ruan, Si-si Luan, Zhen-Hua Dong, Jing Wang, Shan-Shan Wu, Tian Guo, Shi-Zhan Ma, Ling Gao, Jia-Jun Zhao, Zhao He

  Acta Pharmacol Sin 2020 Aug; 41(8):1033-1040.

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- Placenta-Derived Mesenchymal Stem Cells Restore the Ovary Function in an Ovariectomized Rat Model via an Antioxidant Effect.

  Jin Seok, Hyeri Park, Jong Ho Choi, Ja-Yun Lim, Kyung Gon Kim, Gi Jin Kim.

  Antioxidants 2020 Jul; 9(7):591.

  Application: Quant, Rat, Rat serum

- FSH signaling is involved in affective disorders.

  Bi WK, Luan SS, Wang J, Wu SS, Jin XC, Fu YL, Gao L, Zhao JJ, He Z.

  Biochemical and Biophysical Research Communications 2020 May; 525(4):915.

  Application: ELISA, Mouse, Serum

- Blocking FSH inhibits hepatic cholesterol biosynthesis and reduces serum cholesterol.

  Guo Y, Zhao M, Bo T, Ma S, Yuan Z, Chen W, He Z, Hou X, Liu J, Zhang Z, Zhu Q, Wang Q, Lin X, Yang Z, Cui M, Liu L, Li Y, Yu C, Qi X, Wang Q, Zhang H, Guan Q, Zhao L, Xuan S, Yan H, Lin Y, Wang L, Li Q, Song Y, Gao L, Zhao J.

  Cell Research 2019 Feb; 29(2):151.

  Application: Quant, Mouse, Mouse serum

- The GMO90+ project: absence of evidence for biologically meaningful effects of genetically modified maize based-diets on Wistar rats after 6-months feeding comparative trial.

  Coumoul X, Servien R, Juricek L, Kaddouch-Amar Y, Lippi Y, Berthelot L, Naylies C, Morvan ML, Antignac JP, Christèle DL, Jegou B, Tremblay-Franco M, Canlet C, Debrauwer L, Le Gall C, Laurent J, Gouraud PA, Cravedi JP, Jeunesse E, Savy N, Dandere-Abdoulkarim K, Arnich N, Fourès F, Cotton J, Broudin S, Corman B, Moing A, Laporte B, Richard-Forget F, Barouki R, Rogowsky P, Salles B.

  Toxicological Sciences 2018 Dec; [Epub].

  Application: Quant, Rat, Rat plasma

- Vitexin alleviates streptozotocin-induced sexual dysfunction and fertility impairments in male mice via modulating the hypothalamus-pituitary-gonadal axis.

  Li ZM, Liu N, Jiang YP, Zheng J, Sun M, Li YX, Sun T, Wu J, Yu JQ.

  Chemico-Biological Interactions 2018 Oct; 297:119.

  Application: Quant, Mouse, Serum from Mouse eyes

- Follicle-stimulating hormone enhances hepatic gluconeogenesis by GRK2-mediated AMPK hyperphosphorylation at Ser485 in mice.

  Qi X, Guo Y, Song Y, Yu C, Zhao L, Fang L, Kong D, Zhao J, Gao L.

  Diabetologia 2018 May; 61(5):1180.

  Application: ELISA, Mouse, Blood

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- Exposure to the widely used herbicide atrazine results in deregulation of global tissue-specific RNA transcription in the third generation and is associated with a global decrease of histone trimethylation in mice.

  Chunxiang Hao, Aurore Gely-Pernot, Christine Kervarrec, Melissa Boudjema, Emmanuelle Becker, Pavel Khil, Sergei Tevosian, Bernard Jégou, Fatima Smagulova

  Nucleic Acids Res 2016 11; 44(20):9784-9802.

- Neonatal overfeeding induces early decline of the ovarian reserve: Implications for the role of leptin.

  Sominsky L, Ziko I, Soch A, Smith JT, Spencer SJ.

  Molecular and Cellular Endocrinology 2016 Aug; 431:24.

  Application: ELISA, Rat, Plasma

- The epigenetic processes of meiosis in male mice are broadly affected by the widely used herbicide atrazine.

  Gely-Pernot A, Hao C, Becker E, Stuparevic I, Kervarrec C, Chalmel F, Primig M, Jegou B, Smagulova F.

  BMC Genomics 2015 Oct; 16:885.

  Application: ELISA, Mouse, Serum

- Local injection of mesenchymal stem cells protects testicular torsion-induced germ cell injury.

  Hsiao CH, Ji AT, Chang CC, Cheng CJ, Lee LM, Ho JH.

  Stem Cell Research & Therapy 2015 May; 6(1):1.

  Application: ELISA, Rat, Rat serum

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