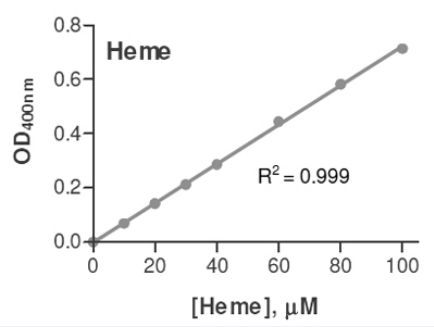
Heme Assay Kit

Catalog # KA1617 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	Heme Assay Kit is a colorimetric determination of total heme at 400 nm.
Suitable Sample	Blood, Heme-carrying Enzymes, Plasma, Serum, Urine.
Sample Volume	50 uL (using 96-well plate) 100 uL (using cuvette)
Detection Method	Colorimetric
Calibration Range	0.6 to 125 uM in 96-well plate assay
Regulation Status	For research use only (RUO)
Quality Control Testing	Standard Curve The standard curve is for the purpose of illustration only and should not be used to calculate unknown s. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store the kit at 4°C.

Applications

- Functional Study

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Publication Reference

- PGRMC2 is a pressure-volume regulator critical for myocardial responses to stress in mice.

  Farideh Amirrad., Vivian La., Sharareh Ohadi., Miram Albotaif., Sha Webster., James K. Pru., Kiumars Shamloo., Ashraf M. Mohieldin., Surya M. Nauli.

  Nature Communications 2025 Mar; 16(1):2422.

  Application: Heme quantification assay, Mouse, Mouse heart tissues

- Endoperoxide-enhanced self-assembled ROS producer as intracellular prodrugs for tumor chemotherapy and chemodynamic therapy.

  Junjie Tang, Yadong Liu, Yifan Xue, Zhaozhong Jiang, Baizhu Chen, Jie Liu

  Exploration (Beijing) 2024 Aug; 4(4):20230127.

- Regional variations in allergen-induced airway inflammation correspond to changes in soluble guanylyl cyclase heme and expression of heme oxygenase-1.

  Mamta P Sumi, Rosemary Westcott, Eric Stuehr, Chaitali Ghosh, Dennis J Stuehr, Arnab Ghosh.

  FASEB Journal 2024 Mar; 38(6):e23572.

  Application: Func, Mouse, Mouse lung tissue

- Circulating hemopexin modulates anthracycline cardiac toxicity in patients and in mice.

  Jing Liu, Sarah Lane, Rahul Lall, Michele Russo, Laurie Farrell, Melis Debreli Coskun, Casie Curtin, Raquel Araujo-Gutierrez, Marielle Scherrer-Crosbie, Barry H Trachtenberg, Jonghan Kim, Emanuela Tolosano, Alessandra Ghigo, Robert E Gerszten, Aarti Asnani.

  Science Advances 2022 Dec; 8(51):eadc9245.

  Application: Blood collect, ELISA, Mouse, Mouse blood, Mouse heart, Mouse liver, Mouse plasma

- Excess heme upregulates heme oxygenase 1 and promotes cardiac ferroptosis in mice with sickle cell disease.

  Archita Venugopal Menon, Jing Liu, Hanting Phoebe Tsai, Lingxue Zeng, Seungjeong Yang, Aarti Asnani, Jonghan Kim.

  Blood 2022 Feb; 139(6):936.

  Application: Func, Quant, Mouse, Mouse serum

- Desaturation and heme elevation during COVID-19 infection: A potential prognostic factor of heme oxygenase-1.

  Wen-Lin Su, Chih-Pei Lin, Hui-Ching Hang, Ping-Sheng Wu, Ching-Feng Cheng, You-Chen Chao

  J Microbiol Immunol Infect 2021 Feb; 54(1):113-116.

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- Targeted inhibition of Rev-erb-α/β limits ferroptosis to ameliorate folic acid-induced acute kidney injury.

  Lianxia Guo, Tianpeng Zhang, Fei Wang, Xun Chen, Haiman Xu, Cui Zhou, Min Chen, Fangjun Yu, Shuai Wang, Deguang Yang, Baojian Wu

  Br J Pharmacol 2021 Nov; 178(2):328-345.

- A CRISPR/Cas9 Whole-Genome Screen Identifies Genes Required for Aryl Hydrocarbon Receptor-Dependent Induction of Functional CYP1A1.

  Christopher D Sundberg, Oliver Hankinson

  Toxicol Sci 2019 Aug; 170(2):310-319.

- Tumor-targeting core-shell structured nanoparticles for drug procedural controlled release and cancer sonodynamic combined therapy.

  Wang L, Hu Y, Hao Y, Li L, Zheng C, Zhao H, Niu M, Yin Y, Zhang Z, Zhang Y.

  Journal of Controlled Release : Official Journal of the Controlled Release Society 2018 Sep; 286:74.

  Application：Func, Human, HepG2 cells

- Mechanistic Investigation of the Specific Anticancer Property of Artemisinin and Its Combination with Aminolevulinic Acid for Enhanced Anticolorectal Cancer Activity.

  Jigang Wang, Jianbin Zhang, Yin Shi, Chengchao Xu, Chongjing Zhang, Yin Kwan Wong, Yew Mun Lee, Sanjeev Krishna, Yingke He, Teck Kwang Lim, Weiying Sim, Zi-Chun Hua, Han-Ming Shen, Qingsong Lin

  ACS Cent Sci 2017 7; 3(7):743-750.

- Reduced hemopexin levels in peritoneal fluid of patients with endometriosis.

  Monika M Wolfler, Ivo M Meinhold-Heerlein, Corinna Henkel, Werner Rath, Joseph Neulen, Nicolai Maass, Karen Brautigam

  Fertil Steril 2013 Sep; 100(3):777-81.

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