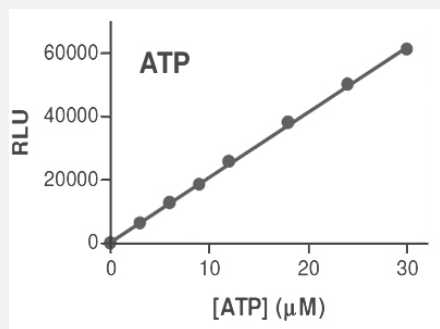


ATP Assay Kit

Catalog # KA1661 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	ATP Assay Kit is a rapid bioluminescent determination of ATP.
Suitable Sample	Biological Sample, Cell
Sample Volume	100 uL
Limit of Detection	0.02 uM
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 unknowns. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store the kit at -20°C.

Applications

- Functional Study

Publication Reference

- [Isoliensinine augments the therapeutic potential of paclitaxel in multidrug-resistant colon cancer stem cells and induced mitochondria-mediated cell death.](#)

Prasath Manogaran, Aparna Anandan, Viswanadha Vijaya Padma.

Journal of Biochemical and Molecular Toxicology 2023 Aug; 37(8):e23395.

Application: ELISA, Human, HCT-15 cells

- [Toxic Effects Induced by Diuron and Its Metabolites in Caenorhabditis elegans.](#)

Thania Rios Rossi Lima, Airtón C Martins, Lilian Cristina Pereira, Michael Aschner.

Neurotoxicity Research 2022 Dec; 40(6):1812.

Application: Func, Worm, Worm

- [miR-22 Suppresses EMT by Mediating Metabolic Reprogramming in Colorectal Cancer through Targeting MYC-Associated Factor X.](#)

Shusen Xia, Xianyan Wang, Yi Wu, Tong Zhou, Hongpeng Tian, Zuoliang Liu, Lifa Li, Zaihua Yan, Guangjun Zhang.

Disease Markers 2022 Aug; 2022:7843565.

Application: Func, Human, HCT116, SW620 cells

- [Propofol Prevents the Growth, Migration, Invasion, and Glycolysis of Colorectal Cancer Cells by Downregulating Lactate Dehydrogenase Both In Vitro and In Vivo.](#)

Zhichao Wu, Han Wang, Zu-An Shi, Yalan Li.

Journal of Oncology 2022 Apr; 2022:8317466.

Application: Quant, Human, HCT-116, LoVo cells

- [Grape seed flour \(GSF\) extends longevity by improving multi-organ dysfunction and age-associated oxidative stress and inflammation in healthy rat.](#)

Khawla Jebari, Kamel Charradi, Mohamed Mahmoudi, Safwen Kadri, Mossadok Ben-Attia, Mohamed Mousslim, Michèle Véronique El May, Ferid Limam, Ezzedine Aouani.

The Journals of Gerontology. Series A, Biological Sciences and Medical Sciences 2021 Sep; glab259.

Application: Quant, Rat, Rat heart, Rat hippocampus, Rat kidney, Rat liver

- [Growth differentiation factor 11 attenuates cardiac ischemia reperfusion injury via enhancing mitochondrial biogenesis and telomerase activity.](#)

Lin Chen, Guangjin Luo, Yameng Liu, Hairuo Lin, Cankun Zheng, Dongxiao Xie, Yingqi Zhu, Lu Chen, Xiaoxia Huang, Donghong Hu, Jiahe Xie, Zhenhuan Chen, Wangjun Liao, Jianping Bin, Qiancheng Wang, Yulin Liao.

Cell Death & Disease 2021 Jul; 12(7):665.

Application: Func, Mouse, Rat, Mouse myocardial tissue, Neonatal rat cardiomyocytes

- [LncRNA DDX11-AS1 accelerates hepatocellular carcinoma progression via the miR-195-5p/MACC1 pathway.](#)

Tao Wan, Jun Zheng, Rucheng Yao, Shuang Yang, Weihong Zheng, Pei Zhou.

Annals of hepatology 2020 Sep; 20:100258.

Application: Func, Human, Huh7, PLC/PRF/5 cells

- [Posttranslational lysine 2-hydroxyisobutyrylation of human sperm tail proteins affects motility.](#)

Yi-Min Cheng, Zhen Peng, Hou-Yang Chen, Ting-Ting Pan, Xiao-Nian Hu, Fang Wang, Tao Luo.

Human Reproduction 2020 Mar; 35(3):494.

Application: Func, Human, Human sperm

- [CMT2Q-causing mutation in the Dhtkd1 gene lead to sensory defects, mitochondrial accumulation and altered metabolism in a knock-in mouse model.](#)

Chun-Jie Luan, Wenting Guo, Lei Chen, Xi-Wei Wei, Yimin He, Yan Chen, Su-Ying Dang, Robert Prior, Xihua Li, Ying Kuang, Zhu-Gang Wang, Ludo Van Den Bosch, Ming-Min Gu.

Acta Neuropathologica Communications 2020 Mar; 8(1):32.

Application: Func, Mouse, Embryonic stem cells, Livers

- [HIF-1 \$\alpha\$ /Actl6a/H3K9ac axis is critical for pluripotency and lineage differentiation of human induced pluripotent stem cells.](#)

Cui P, Zhang P, Zhang Y, Sun L, Cui G, Guo X, Wang H, Zhang X, Shi Y, Yu Z.

FASEB Journal 2020 Apr; 34(4):5740.

Application: Func, Quant, Human, Human induced pluripotent stem cells

- [MitoQ ameliorates testicular damage induced by gamma irradiation in rats: Modulation of mitochondrial apoptosis and steroidogenesis.](#)

Ibrahim AA, Karam HM, Shaaban EA, Safar MM, El-Yamany MF.

Life Sciences 2019 Sep; 232:116655.

Application: Func, Quant, Rat, Rat testicular tissue

- [Mechanically Induced Chromatin Condensation Requires Cellular Contractility in Mesenchymal Stem Cells.](#)

Heo SJ, Han WM, Szczesny SE, Cosgrove BD, Elliott DM, Lee DA, Duncan RL, Mauck RL.

Biophysical Journal 2016 Aug; 111(4):864.

Application: Quan, Bovine, Bovine mesenchymal stem cell

- [Biophysical Regulation of Chromatin Architecture Instills a Mechanical Memory in Mesenchymal Stem Cells.](#)

Heo SJ, Thorpe SD, Driscoll TP, Duncan RL, Lee DA, Mauck RL.

Scientific Reports 2015 Nov; 5:16895.

Application: ATP assay, Bovinae, Mesenchymal stem cells (MSCs)

- [The gasotransmitter hydrogen sulphide decreases Na⁺ transport across pulmonary epithelial cells.](#)

Althaus M, Urness KD, Clauss WG, Baines DL, Fronius M.

British Journal of Pharmacology 2012 Jul; 166(6):1946.

Application: Quant, Human, H441 cells