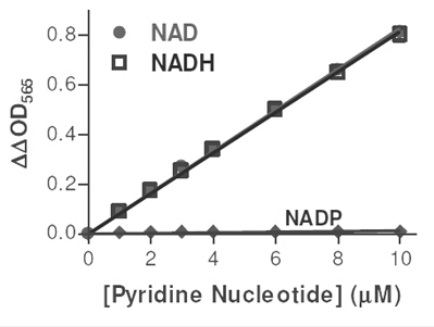
NAD/NADH Assay Kit (Colorimetric)

Catalog # KA1657 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	NAD/NADH Assay Kit (Colorimetric) is ultrasensitive colorimetric determination of NAD+/NADH at 5 65 nm.
Suitable Sample	Cell, Tissue
Sample Volume	40 uL
Detection Method	Colorimetric
Calibration Range	0.05 to 10 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 unknown s. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store the kit at -20°C.

Applications

- Functional Study

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Publication Reference

- Quorum-sensing agr system of Staphylococcus aureus primes gene expression for protection from lethal oxidative stress.

  Magdalena Podkowik, Andrew I Perault, Gregory Putzel, Andrew W Pountain, Jisun Kim, Ashley L DuMont, Erin E Zwack, Robert J Ulrich, Theodora K Karagounis, Chunyi Zhou, Andreas F Haag, Julia Shenderovich, Gregory A Wasserman, Junbeom Kwon, John Chen, Anthony R Richardson, Jeffrey N Weiser, Carla R Nowosad, Desmond S Lun, Dane Parker, Alejandro Pironti, Xilin Zhao, Karl Drlica, Itai Yanai, Victor J Torres, Bo Shopsin

  Elife 2024 Apr; 12.

- Nicotinamide mononucleotide alleviates endotoxin-induced acute lung injury by modulating macrophage polarization via the SIRT1/NF-κB pathway.

  Simeng He, Xianhong Jiang, Jing Yang, Ya Wu, Jia Shi, Xiaoyang Wu, Shihan Du, Yuan Zhang, Lirong Gong, Shuan Dong, Jianbo Yu.

  Pharmaceutical Biology 2023 Dec; 62(1):22.

  Application: Quant, Mouse, Frozen lung tissue

- NAD + ameliorates endotoxin-induced acute kidney injury in a sirtuin1-dependent manner via GSK-3β/Nrf2 signalling pathway.

  Simeng He, Qiaoying Gao, Xiaoyang Wu, Jia Shi, Yuan Zhang, Jing Yang, Xiangyun Li, Shihan Du, Yanfang Zhang, Jianbo Yu.

  Journal of Cellular and Molecular Medicine 2022 Apr; 26(7):1979.

  Application: Quant, Mouse, Kidney

- NMNAT2 is downregulated in glaucomatous RGCs, and RGC-specific gene therapy rescues neurodegeneration and visual function.

  Fang Fang, Pei Zhuang, Xue Feng, Pingting Liu, Dong Liu, Haoliang Huang, Liang Li, Wei Chen, Liang Liu, Yang Sun, Haowen Jiang, Jiangbin Ye, Yang Hu.

  Molecular Therapy 2022 Apr; 30(4):1421.

  Application: Func, Mouse, Mouse optic nerve, Mouse retinas

- Neuronal NMNAT2 Overexpression Does Not Achieve Significant Neuroprotection in Experimental Autoimmune Encephalomyelitis/Optic Neuritis.

  Pingting Liu, Haoliang Huang, Fang Fang, Liang Liu, Liang Li, Xue Feng, Wei Chen, Roopa Dalal, Yang Sun, Yang Hu

  Front Cell Neurosci 2021 Oct; 15:754651.

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- Thiol-specific Oxidant Diamide Downregulates whiA Gene of Corynebacterium glutamicum, thereby Suppressing Cell Division and Metabolism.

  Haeri Jeong, Jae-Hyun Lee, Younhee Kim, Heung-Shick Lee.

  Research in Microbiology 2020 Dec; 171(8):331.

  Application: Func, Bacteria, Bacterial strains

- Effects of quality grade and intramuscular location on beef semitendinosus muscle fiber characteristics, NADH content, and color stability.

  Cadra L Van Bibber-Krueger, Ashley M Collins, Kelsey J Phelps, Travis G O'Quinn, Terry A Houser, Kari K Turner, John M Gonzalez.

  Journal of Animal Science 2020 Apr; 98(4):skaa078.

  Application: Func, Bovine, Bovine semitendinosus muscles

- Mild Hypothermia Attenuates Hepatic Ischemia-Reperfusion Injury through Regulating the JAK2/STAT3-CPT1a-Dependent Fatty Acid β-Oxidation.

  Wang W, Hu X, Xia Z, Liu Z, Zhong Z, Lu Z, Liu A, Ye S, Cao Q, Wang Y, Zhu F, Ye Q.

  Oxidative Medicine and Cellular Longevity 2020 Mar; 2020:5849794.

  Application: Func, Mouse, Mouse livers

- Sirt3 Deficiency Shortens Life Span and Impairs Cardiac Mitochondrial Function Rescued by Opa1 Gene Transfer.

  Benigni A, Cassis P, Conti S, Perico L, Corna D, Cerullo D, Zentilin L, Zoja C, Perna A, Lionetti V, Giacca M, Trionfini P, Tomasoni S, Remuzzi G.

  Antioxidants & Redox Signaling 2019 Aug; [Epub].

  Application: Func, Mouse, Mouse Cardiac tissues

- Metabolism of hyperpolarized 13 C-acetoacetate to β-hydroxybutyrate detects real-time mitochondrial redox state and dysfunction in heart tissue.

  Chen W, Sharma G, Jiang W, Maptue NR, Malloy CR, Sherry AD, Khemtong C.

  NMR in Biomedicine 2019 Jun; 32(6):e4091.

  Application: Func, Rat, Rat hearts

- The osnR gene of Corynebacterium glutamicum plays a negative regulatory role in oxidative stress responses.

  Jeong H, Kim Y, Lee HS.

  Journal of Industrial Microbiology & Biotechnology 2019 Feb; 46(2):241.

  Application: Func, Corynebacterium glutamicum, Intracellular nucleotides

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