

Dopamine ELISA Kit

Catalog # KA3838

Size 1 Kit

Specification

Product Description	Dopamine ELISA Kit is an enzyme immunoassay (ELISA) for the quantitative and ultra-sensitive determination of dopamine in any species and various biological samples.
Suitable Sample	Biological Fluid
Sample Volume	1-750 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Limit of Detection	0.25 pg/mL x Correction factor
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Publication Reference

- [Chronic exposure to bisphenol A induces behavioural, neurochemical, histological, and ultrastructural alterations in the ganglia tissue of the date mussels *Lithophaga lithophaga*.](#)

Heba-Tallah Abd Elrahim Abd Elkader, Ahmed S Al-Shami.

Environmental Science and Pollution Research International 2023 Oct; 30(50):109041.

Application: ELISA, Date mussels (*Lithophaga lithophaga*), Mussel ganglia

- [Protocol for 3D Bioprinting Mesenchymal Stem Cell-derived Neural Tissues Using a Fibrin-based Bioin.](#)

Milena Restan Perez, Nadia Z Masri, Jonathan Walters-Shumka, Sarah Kahale, Stephanie M Willerth.

Bio-Protocol 2023 May; 13(9):e4663.

Application: ELISA, Human, MSCs

- [Unravelling the neuroprotective mechanisms of carotenes in differentiated human neural cells: Biochemical and proteomic approaches.](#)

Kasthuri Bai Magalingam, Sushela Devi Somanath, Nagaraja Haleagrahara, Kanga Rani Selvaduray, Ammu Kutty Radhakrishnan.

Food Chemistry. Molecular Sciences 2022 Feb; 4:100088.

Application: Quant, Human, SH-SY5Y cells

- [Tocotrienols protect differentiated SH-SY5Y human neuroblastoma cells against 6-hydroxydopamine-induced cytotoxicity by ameliorating dopamine biosynthesis and dopamine receptor D2 gene expression.](#)

Kasthuri Bai Magalingam 1, Sushela Devi Somanath 2, Shadab Md 3, Nagaraja Haleagrahara 4, Ju-Yen Fu 5, Kanga Rani Selvaduray 5, Ammu Kutty Radhakrishnan.

Nutrition Research (New York, N.Y.) 2022 Feb; 98:27.

Application: Quant, Human, SH-SY5Y cells

- [Trophoblast glycoprotein is a new candidate gene for Parkinson's disease.](#)

Sanghyun Park, Jeong-Eun Yoo, Gyu-Bum Yeon, Jin Hee Kim, Jae Souk Lee, Sung Kyoung Choi, Young-Gi Hwang, Chan Wook Park, Myung Soo Cho, Jongwan Kim, Dokyun Na, Hyung Wook Kim, Dae-Sung Kim, Dong-Wook Kim.

NPJ Parkinson's Disease 2021 Dec; 7(1):110.

Application: ELISA, Mouse, Mouse striatum

- [Dopamine inhibits the expression of proinflammatory cytokines of microglial cells through the formation of dopamine quinone in the mouse striatum.](#)

Yasuhiro Yoshioka, Yuta Sugino, Akiko Yamamuro, Yuki Ishimaru, Sadaaki Maeda.

Journal of Pharmacological Sciences 2022 Jan; 148(1):41.

Application: Quant, Mouse, Mouse striatum

- [Trophoblast glycoprotein is a marker for efficient sorting of ventral mesencephalic dopaminergic precursors derived from human pluripotent stem cells.](#)

Jeong-Eun Yoo, Dongjin R Lee, Sanghyun Park, Hye-Rim Shin, Kun Gu Lee, Dae-Sung Kim, Mi-Young Jo, Jang-Hyeon Eom, Myung Soo Cho, Dong-Youn Hwang, Dong-Wook Kim.

NPJ Parkinson's Disease 2021 Jul; 7(1):61.

Application: Quant, Human, Human pluripotent stem cells

- [A fully automated high-throughput workflow for 3D-based chemical screening in human midbrain organoids.](#)

Henrik Renner, Martha Grabos, Katharina J Becker, Theresa E Kagermeier, Jie Wu, Mandy Otto, Stefan Peischard, Dagmar Zeuschner, Yaroslav TsyTsyura, Paul Disse, Jürgen Klingauf, Sebastian A Leidel, Guiscard Seebohm, Hans R Schöler, Jan M Bruder.

Elife 2020 Nov; 9:e52904.

Application: Quant, Human, Automated midbrain organoids, cerebrospinal fluid

- [NQO1 regulates pharmaco-behavioral effects of d-amphetamine in striatal dopaminergic system in mice.](#)

Jun Go, Young-Kyoung Ryu, Hye-Yeon Park, Dong-Hee Choi, Young-Keun Choi, Dae Youn Hwang, Chul-Ho Lee, Kyoung-Shim Kim.

Neuropharmacology 2020 Jun; 170:108039.

Application: Quant, Mouse, Mouse striatum

- [Strengths and limitations of morphological and behavioral analyses in detecting dopaminergic deficiency in *Caenorhabditis elegans*.](#)

Smith LL, Ryde IT, Hartman JH, Romersi RF, Markovich Z, Meyer JN.

Neurotoxicology 2019 Jul; 74:209.

Application: Quant, Insect, Worms

- [Outcomes of developmental exposure to total particulate matter from cigarette smoke in zebrafish \(*Danio rerio*\).](#)

Massarsky A, Jayasundara N, Glazer L, Levin ED, Prasad GL, Di Giulio RT.

Neurotoxicology 2018 Jul; [Epub].

Application: Quant, Fish, Fish brain

- [Major changes of cell function and toxicant sensitivity in cultured cells undergoing mild, quasi-natural genetic drift.](#)

Gutbier S, May P, Berthelot S, Krishna A, Trefzer T, Behbehani M, Efremova L, Delp J, Gstraunthaler G, Waldmann T, Leist M.

Archives of Toxicology 2018 Oct; [Epub].

Application: Quant, Human, LUHMES cells

- [Japanese Encephalitis Virus Exploits Dopamine D2 Receptor-phospholipase C to Target Dopaminergic Human Neuronal Cells.](#)

Simanjuntak Y, Liang JJ, Lee YL, Lin YL.

Frontiers in Microbiology 2017 Apr; 8:651.

Application: Quant, Human, BE(2)C cells

- [Nanocellulose based asymmetric composite membrane for the multiple functions in cell encapsulation.](#)

Park M, Shin S, Cheng J, Hyun J.

Carbohydrate Polymers 2016 Dec; 158:133.

Application: Quant, Rat, PC-12 cells