

Resource Summary Report

Generated by T1D on Aug 1, 2026

Heka Elektronik: EPC 10 USB Patch Clamp Amplifier

RRID:SCR_018399

Type: Tool

Proper Citation

Heka Elektronik: EPC 10 USB Patch Clamp Amplifier (RRID:SCR_018399)

Resource Information

URL: https://www.heka.com/products/products_main.html#physiol_epc10multi

Proper Citation: Heka Elektronik: EPC 10 USB Patch Clamp Amplifier (RRID:SCR_018399)

Description: Electrophysiology patch clamp amplifier for collecting electrical signals from tissues and cells. Can be controlled via USB. Designed and manufactured by HEKA Elektronik.

Synonyms: EPC 10 USB Double, EPC 10 USB Patch Clamp Amplifier, EPC 10/n USB Patch Clamp Amplifier

Resource Type: instrument resource

Keywords: Amplifier, patch clamp, HEKA, EPC 10, instrument, equipment, Heka Elektronik, Patch Clamp Amplifier, USEDit

Availability: Restricted

Resource Name: Heka Elektronik: EPC 10 USB Patch Clamp Amplifier

Resource ID: SCR_018399

Alternate IDs: SCR_020008, Model_Number_EPC 10

Alternate URLs: http://www.heka.com/downloads/hardware/manual/m_epc10.pdf, https://www.heka.com/downloads/hardware/manual/m_epc10.pdf

Record Creation Time: 20220129T080340+0000

Record Last Update: 20260801T190620+0000

Ratings and Alerts

No rating or validation information has been found for Heka Elektronik: EPC 10 USB Patch Clamp Amplifier.

No alerts have been found for Heka Elektronik: EPC 10 USB Patch Clamp Amplifier.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 20 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#) .

Heller DT, et al. (2025) Pre-Sensory Spontaneous Activity Accelerates Coordinated Maturation of Synaptic Partners and Drives Transition to the Mature Physiological Phenotype. bioRxiv : the preprint server for biology.

Lin KH, et al. (2025) Number and relative abundance of synaptic vesicles in functionally distinct priming states determine synaptic strength and short-term plasticity. The Journal of physiology.

Palchadhuri S, et al. (2025) A posterior insula to lateral amygdala pathway transmits US-offset information with a limited role in fear learning. Cell reports, 44(2), 115320.

Segura-Covarrubias G, et al. (2025) Structural basis of GluK2 kainate receptor activation by a partial agonist. Nature structural & molecular biology, 32(8), 1456.

García-Ávila M, et al. (2024) Permeant cations modulate pore dynamics and gating of TRPV1 ion channels. The Journal of general physiology, 156(1).

Maltsev DI, et al. (2024) Human TRPV1 is an efficient thermogenetic actuator for chronic neuromodulation. Cellular and molecular life sciences : CMLS, 81(1), 437.

Sokolov R, et al. (2024) Hyaluronidase-induced matrix remodeling contributes to long-term synaptic changes. Frontiers in neural circuits, 18, 1441280.

Midorikawa M, et al. (2024) Developmental refinement of the active zone nanotopography and axon wiring at the somatosensory thalamus. Cell reports, 43(10), 114770.

Kintscher M, et al. (2023) A striatal circuit balances learned fear in the presence and absence of sensory cues. eLife, 12.

Thoreson WB, et al. (2023) EAAT5 glutamate transporter rapidly binds glutamate with micromolar affinity in mouse rods. The Journal of general physiology, 155(9).

Hussein RA, et al. (2023) Selenomethionine mis-incorporation and redox-dependent voltage-gated sodium channel gain of function. Journal of neurochemistry, 167(2), 262.

Held K, et al. (2022) Pharmacological properties of TRPM3 isoforms are determined by the length of the pore loop. *British journal of pharmacology*, 179(14), 3560.

Fournel R, et al. (2022) Digital reconstruction and quantitative morphometric analysis of bipolar cells in live rat retinal slices. *The Journal of comparative neurology*, 530(10), 1700.

Wang Y, et al. (2022) Scutellarein attenuates atopic dermatitis by selectively inhibiting transient receptor potential vanilloid 3 channels. *British journal of pharmacology*, 179(20), 4792.

Beekhof GC, et al. (2021) Differential spatiotemporal development of Purkinje cell populations and cerebellum-dependent sensorimotor behaviors. *eLife*, 10.

Kruse M, et al. (2021) Control of Neuronal Excitability by Cell Surface Receptor Density and Phosphoinositide Metabolism. *Frontiers in pharmacology*, 12, 663840.

Lipstein N, et al. (2021) Munc13-1 is a Ca^{2+} -phospholipid-dependent vesicle priming hub that shapes synaptic short-term plasticity and enables sustained neurotransmission. *Neuron*, 109(24), 3980.

Fleck D, et al. (2021) ATP activation of peritubular cells drives testicular sperm transport. *eLife*, 10.

Owen B, et al. (2021) Excitatory synaptic transmission in hippocampal area CA1 is enhanced then reduced as chronic epilepsy progresses. *Neurobiology of disease*, 154, 105343.

Imig C, et al. (2020) Ultrastructural Imaging of Activity-Dependent Synaptic Membrane-Trafficking Events in Cultured Brain Slices. *Neuron*, 108(5), 843.