Resource Summary Report

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WEBMAXC EXTENDED

RRID:SCR_018807
Type: Tool

Proper Citation

WEBMAXC EXTENDED (RRID:SCR_018807)

Resource Information

URL: https://somapp.ucdmc.ucdavis.edu/pharmacology/bers/maxchelator/webmaxc/webmaxcE.htm

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Description: Web tool for computing metal ion concentrations in physiological solutions. Used for determining free metal concentration in presence of chelators or total metal given desired free concentration.

Synonyms: WEBMAXC Extended

Resource Type: service resource, software resource, web service, production service resource, analysis service resource, data access protocol

Keywords: Metal ion concentration, physiological solution, free metal concentration, chelator, free concentration, free metal concentration calculation

Funding:

Availability: Free, Freely available

Resource Name: WEBMAXC EXTENDED

Resource ID: SCR_018807

Record Creation Time: 20220129T080342+0000

Record Last Update: 20250418T055540+0000

Ratings and Alerts

No rating or validation information has been found for WEBMAXC EXTENDED.

No alerts have been found for WEBMAXC EXTENDED.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Weninger G, et al. (2024) Structural insights into the regulation of RyR1 by S100A1. Proceedings of the National Academy of Sciences of the United States of America, 121(27), e2400497121.

Cozzolino M, et al. (2024) Intracellular acidity impedes KCa3.1 activation by Riluzole and SKA-31. Frontiers in pharmacology, 15, 1380655.

Dubaissi E, et al. (2024) The Tmem16a chloride channel is required for mucin maturation after secretion from goblet-like cells in the Xenopus tropicalis tadpole skin. Scientific reports, 14(1), 25555.

Dridi H, et al. (2023) Heart failure-induced cognitive dysfunction is mediated by intracellular Ca2+ leak through ryanodine receptor type 2. Nature neuroscience, 26(8), 1365.

Combe CL, et al. (2023) Cholinergic modulation shifts the response of CA1 pyramidal cells to depolarizing ramps via TRPM4 channels with potential implications for place field firing. eLife, 12.

Paknejad N, et al. (2023) Structural titration reveals Ca2+-dependent conformational landscape of the IP3 receptor. Nature communications, 14(1), 6897.

Sanchez GM, et al. (2023) The ?-cell primary cilium is an autonomous Ca2+ compartment for paracrine GABA signaling. The Journal of cell biology, 222(1).

Ramanadane K, et al. (2023) Structural and functional properties of a plant NRAMP-related aluminum transporter. eLife, 12.

Dickinson MS, et al. (2022) Molecular basis of multistep voltage activation in plant two-pore channel 1. Proceedings of the National Academy of Sciences of the United States of America, 119(9).

Delgado BD, et al. (2022) Mechanisms of ion selectivity and throughput in the mitochondrial calcium uniporter. Science advances, 8(50), eade1516.

Conner GE, et al. (2021) Regulation of dual oxidase hydrogen peroxide synthesis results in an epithelial respiratory burst. Redox biology, 41, 101931.

Straub MS, et al. (2021) Cryo-EM structures of the caspase-activated protein XKR9 involved in apoptotic lipid scrambling. eLife, 10.

Yamashita M, et al. (2021) Interrogating permeation and gating of Orai channels using chemical modification of cysteine residues. Methods in enzymology, 652, 213.

Dayal A, et al. (2021) Pore mutation N617D in the skeletal muscle DHPR blocks Ca2+ influx due to atypical high-affinity Ca2+ binding. eLife, 10.

Lariccia V, et al. (2020) Cracking the code of sodium/calcium exchanger (NCX) gating: Old and new complexities surfacing from the deep web of secondary regulations. Cell calcium, 87, 102169.

Bai JP, et al. (2020) Calcium-induced calcium release in proximity to hair cell BK channels revealed by PKA activation. Physiological reports, 8(15), e14449.

Seifert C, et al. (2020) Modulation of Kv4.2/KChIP3 interaction by the ceroid lipofuscinosis neuronal 3 protein CLN3. The Journal of biological chemistry, 295(34), 12099.