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Purification, visualization, and biophysical characterization of Kv1.3 tetramers

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#	Paper	IF	Citations
50	Human homologue of the Drosophila discs large tumor suppressor binds to p56lck tyrosine kinase and Shaker type Kv1.3 potassium channel in T lymphocytes. <i>Journal of Biological Chemistry</i> , 1997 , 272, 26899-904	5.4	97
49	Chapter 18. T Lymphocyte Potassium Channel Blockers. <i>Annual Reports in Medicinal Chemistry</i> , 1997 , 32, 181-190	1.6	4
48	Evidence for interaction between transmembrane segments in assembly of Kv1.3. <i>Biochemistry</i> , 1997 , 36, 15501-13	3.2	25
47	Tetrameric stoichiometry of a prokaryotic K ⁺ channel. <i>Biochemistry</i> , 1997 , 36, 10335-42	3.2	117
46	Electron and atomic force microscopy of membrane proteins. <i>Current Opinion in Structural Biology</i> , 1997 , 7, 543-9	8.1	30
45	Ion channels in the immune system as targets for immunosuppression. <i>Current Opinion in Biotechnology</i> , 1997 , 8, 749-56	11.4	136
44	Regulation of mammalian Shaker-related K ⁺ channels: evidence for non-conducting closed and non-conducting inactivated states. <i>Journal of Physiology</i> , 1998 , 506 (Pt 2), 291-301	3.9	40
43	Two-dimensional crystallization and projection structure of KcsA potassium channel. <i>Journal of Molecular Biology</i> , 1998 , 282, 211-6	6.5	19
42	Structural models of the transmembrane region of voltage-gated and other K ⁺ channels in open, closed, and inactivated conformations. <i>Journal of Structural Biology</i> , 1998 , 121, 263-84	3.4	95
41	The sodium channel has four domains surrounding a central pore. <i>Journal of Structural Biology</i> , 1998 , 121, 314-25	3.4	39
40	Functional reconstitution of a prokaryotic K ⁺ channel. <i>Journal of General Physiology</i> , 1998 , 111, 741-9	3.4	184
39	A Kv1.5 to Kv1.3 switch in endogenous hippocampal microglia and a role in proliferation. <i>Journal of Neuroscience</i> , 1999 , 19, 10680-93	6.6	135
38	Regional contributions of Kv1.4, Kv4.2, and Kv4.3 to transient outward K ⁺ current in rat ventricle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H1599-607	5.2	66
37	UK-78,282, a novel piperidine compound that potently blocks the Kv1.3 voltage-gated potassium channel and inhibits human T cell activation. <i>British Journal of Pharmacology</i> , 1999 , 126, 1707-16	8.6	50
36	Expression of N-methyl-D-aspartate receptors using vaccinia virus causes excitotoxic death in human kidney cells. <i>Journal of Cellular Biochemistry</i> , 1999 , 72, 135-44	4.7	7
35	Induction of potassium channels in mouse brain microglia: cells acquire responsiveness to pneumococcal cell wall components during late development. <i>Neuroscience</i> , 1999 , 89, 1379-90	3.9	52
34	Potassium channels in rat prostate epithelial cells. <i>FEBS Letters</i> , 1999 , 459, 15-21	3.8	24

33	Functional reconstitution of bacterially expressed human potassium channels in proteoliposomes: membrane potential measurements with JC-1 to assay ion channel activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999 , 1416, 92-100	3.8	16
32	Recreation of neuronal Kv1 channel oligomers by expression in mammalian cells using Semliki Forest virus. <i>Biochemistry</i> , 1999 , 38, 16766-76	3.2	25
31	Association analysis of CAG repeats at the KCNN3 locus in Indian patients with bipolar disorder and schizophrenia. <i>American Journal of Medical Genetics Part A</i> , 2000 , 96, 744-8		24
30	The growth regulatory fibroblast IK channel is the prominent electrophysiological feature of rat prostatic cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 269, 457-63	3.4	23
29	Recent developments in the biology and medicinal chemistry of potassium channel modulators: update from a decade of progress. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 1627-53	8.3	141
28	Molecular properties and physiological roles of ion channels in the immune system. <i>Journal of Clinical Immunology</i> , 2001 , 21, 235-52	5.7	190
27	Identification of a trafficking determinant localized to the Kv1 potassium channel pore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 14055-9	11.5	80
26	Episodic ataxia type-1 mutations in the Kv1.1 potassium channel display distinct folding and intracellular trafficking properties. <i>Journal of Biological Chemistry</i> , 2001 , 276, 49427-34	5.4	55
25	Regulation of Kv1 subunit expression in oligodendrocyte progenitor cells and their role in G1/S phase progression of the cell cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2350-5	11.5	146
24	Predominant expression of Kv1.3 voltage-gated K ⁺ channel subunit in rat prostate cancer cell lines: electrophysiological, pharmacological and molecular characterisation. <i>Pflugers Archiv European Journal of Physiology</i> , 2003 , 446, 559-71	4.6	46
23	Structural characterisation of neuronal voltage-sensitive K ⁺ channels heterologously expressed in <i>Pichia pastoris</i> . <i>Journal of Molecular Biology</i> , 2003 , 333, 103-16	6.5	39
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20	A novel potassium channel in lymphocyte mitochondria. <i>Journal of Biological Chemistry</i> , 2005 , 280, 12790-8	9.4	145
19	Predominant functional expression of Kv1.3 by activated microglia of the hippocampus after Status epilepticus. <i>PLoS ONE</i> , 2009 , 4, e6770	3.7	40
18	Role of Kv1.3 mitochondrial potassium channel in apoptotic signalling in lymphocytes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 1251-9	4.6	55
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15	Peripherally induced human regulatory T cells uncouple Kv1.3 activation from TCR-associated signaling. <i>European Journal of Immunology</i> , 2011 , 41, 3170-5	6.1	12
14	Sigma-1 receptor alters the kinetics of Kv1.3 voltage gated potassium channels but not the sensitivity to receptor ligands. <i>Brain Research</i> , 2012 , 1452, 1-9	3.7	41
13	N-glycosylation promotes the cell surface expression of Kv1.3 potassium channels. <i>FEBS Journal</i> , 2012 , 279, 2632-44	5.7	22
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11	Glucose sensitivity of mouse olfactory bulb neurons is conveyed by a voltage-gated potassium channel. <i>Journal of Physiology</i> , 2013 , 591, 2541-61	3.9	32
10	Kv1.3 contains an alternative C-terminal ER exit motif and is recruited into COPII vesicles by Sec24a. <i>BMC Biochemistry</i> , 2015 , 16, 16	4.8	16
9	Margatoxin-bound quantum dots as a novel inhibitor of the voltage-gated ion channel Kv1.3. <i>Journal of Neurochemistry</i> , 2017 , 140, 404-420	6	6
8	Novel insights into the electrophysiology of murine cardiac macrophages: relevance of voltage-gated potassium channels. <i>Cardiovascular Research</i> , 2021 ,	9.9	2
7	Identification of WP1066, an inhibitor of JAK2 and STAT3, as a K 1.3 potassium channel blocker. <i>British Journal of Pharmacology</i> , 2021 , 178, 2617-2631	8.6	0
6	Review on Biological Characteristics of Kv1.3 and Its Role in Liver Diseases. <i>Frontiers in Pharmacology</i> , 2021 , 12, 652508	5.6	
5	Modulation of Vascular K ⁺ Channels by Extracellular Messengers. 2001 , 457-483		1
4	Immunomagnetic separation is a suitable method for electrophysiology and ion channel pharmacology studies on T cells. <i>Channels</i> , 2021 , 15, 53-66	3	3
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2	Ion Channel Structural Studies.		
1	VLG K Kv1-Shak: Vertebrate K ⁺ channels related to Drosophila Shaker (Kv β subunits encoded by gene subfamily Kv1). 1999 , 374-523		