Compensatory Mechanism for Homeostatic Blood Press Gene-disrupted Mice

Journal of Biological Chemistry 282, 2891-2898

DOI: 10.1074/jbc.m608057200

Citation Report

#	Article	IF	CITATIONS
1	The Soluble Epoxide Hydrolase as a Pharmaceutical Target for Hypertension. Journal of Cardiovascular Pharmacology, 2007, 50, 225-237.	0.8	159
2	Proteinuria increases oxylipid concentrations in VLDL and HDL but not LDL particles in the rat. Journal of Lipid Research, 2007, 48, 1792-1800.	2.0	40
3	DiscrEET regulators of homeostasis: epoxyeicosatrienoic acids, cytochrome P450 epoxygenases and vascular inflammation. Trends in Pharmacological Sciences, 2007, 28, 448-452.	4.0	63
4	Soluble epoxide hydrolase gene deletion reduces survival after cardiac arrest and cardiopulmonary resuscitation. Resuscitation, 2008, 76, 89-94.	1.3	60
5	Soluble epoxide hydrolase is a susceptibility factor for heart failure in a rat model of human disease. Nature Genetics, 2008, 40, 529-537.	9.4	163
6	Phospholipase A2 reduction ameliorates cognitive deficits in a mouse model of Alzheimer's disease. Nature Neuroscience, 2008, 11, 1311-1318.	7.1	314
7	Transcriptomic and Metabonomic Profiling of Obesity-Prone and Obesity-Resistant Rats under High Fat Diet. Journal of Proteome Research, 2008, 7, 4775-4783.	1.8	81
8	Inhibition of Soluble Epoxide Hydrolase Does Not Protect against Endotoxin-Mediated Hepatic Inflammation. Journal of Pharmacology and Experimental Therapeutics, 2008, 327, 707-715.	1.3	29
9	Salt Loading Increases Urinary Excretion of Linoleic Acid Diols and Triols in Healthy Human Subjects. Hypertension, 2008, 51, 755-761.	1.3	14
10	Soluble Epoxide Hydrolase Gene Deletion Is Protective Against Experimental Cerebral Ischemia. Stroke, 2008, 39, 2073-2078.	1.0	158
11	Epoxyeicosatrienoic acids and the soluble epoxide hydrolase are determinants of pulmonary artery pressure and the acute hypoxic pulmonary vasoconstrictor response. FASEB Journal, 2008, 22, 4306-4315.	0.2	100
12	Opposite Regulation of Cholesterol Levels by the Phosphatase and Hydrolase Domains of Soluble Epoxide Hydrolase. Journal of Biological Chemistry, 2008, 283, 36592-36598.	1.6	51
13	Epoxyeicosatrienoic Acid Agonist Rescues the Metabolic Syndrome Phenotype of HO-2-Null Mice. Journal of Pharmacology and Experimental Therapeutics, 2009, 331, 906-916.	1.3	129
14	Soluble epoxide hydrolase plays an essential role in angiotensin II-induced cardiac hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 564-569.	3.3	150
15	Soluble epoxide hydrolase inhibition: targeting multiple mechanisms of ischemic brain injury with a single agent. Future Neurology, 2009, 4, 179-199.	0.9	53
16	Alteration in plasma testosterone levels in male mice lacking soluble epoxide hydrolase. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E375-E383.	1.8	43
17	Soluble epoxide hydrolase gene deletion attenuates renal injury and inflammation with DOCA-salt hypertension. American Journal of Physiology - Renal Physiology, 2009, 297, F740-F748.	1.3	121
18	Triglyceride-rich lipoprotein lipolysis releases neutral and oxidized FFAs that induce endothelial cell inflammation. Journal of Lipid Research, 2009, 50, 204-213.	2.0	225

#	Article	IF	CITATIONS
19	Variation in the human soluble epoxide hydrolase gene and risk of restenosis after percutaneous coronary intervention. BMC Cardiovascular Disorders, 2009, 9, 48.	0.7	11
20	Mammalian epoxide hydrolases in xenobiotic metabolism and signalling. Archives of Toxicology, 2009, 83, 297-318.	1.9	189
21	Soluble epoxide hydrolase as a therapeutic target for cardiovascular diseases. Nature Reviews Drug Discovery, 2009, 8, 794-805.	21.5	527
22	Pharmacokinetic optimization of four soluble epoxide hydrolase inhibitors for use in a murine model of inflammation. British Journal of Pharmacology, 2009, 156, 284-296.	2.7	87
23	Protective actions of epoxyeicosatrienoic acid: Dual targeting of cardiovascular PI3K and KATP channels. Journal of Molecular and Cellular Cardiology, 2009, 46, 978-988.	0.9	39
24	Quantitative Profiling Method for Oxylipin Metabolome by Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry. Analytical Chemistry, 2009, 81, 8085-8093.	3.2	292
25	HPLC/MS/MS-Based Approaches for Detection and Quantification of Eicosanoids. Methods in Molecular Biology, 2009, 579, 161-187.	0.4	8
26	EDHF: an update. Clinical Science, 2009, 117, 139-155.	1.8	289
27	Homozygosity for the EPHX2 K55R polymorphism increases the long-term risk of ischemic stroke in men: a study in Swedes. Pharmacogenetics and Genomics, 2010, 20, 94-103.	0.7	46
28	Targeting Epoxides for Organ Damage in Hypertension. Journal of Cardiovascular Pharmacology, 2010, 56, 329-335.	0.8	53
29	Cytochrome P450 Pathway Contributes to Methanandamide-induced Vasorelaxation in Rat Aorta. Cardiovascular Drugs and Therapy, 2010, 24, 379-389.	1.3	6
30	Pharmacokinetic screening of soluble epoxide hydrolase inhibitors in dogs. European Journal of Pharmaceutical Sciences, 2010, 40, 222-238.	1.9	76
31	Inhibition of soluble epoxide hydrolase enhances the anti-inflammatory effects of aspirin and 5-lipoxygenase activation protein inhibitor in a murine model. Biochemical Pharmacology, 2010, 79, 880-887.	2.0	115
32	Insight in modulation of inflammation in response to diclofenac intervention: a human intervention study. BMC Medical Genomics, 2010, 3, 5.	0.7	34
33	Expression and Regulation of Soluble Epoxide Hydrolase in Adipose Tissue. Obesity, 2010, 18, 489-498.	1.5	80
34	Kynurenine is an endothelium-derived relaxing factor produced during inflammation. Nature Medicine, 2010, 16, 279-285.	15.2	418
35	Detection of omega-3 oxylipins in human plasma and response to treatment with omega-3 acid ethyl esters. Journal of Lipid Research, 2010, 51, 2074-2081.	2.0	118
36	Detection of omega-3 oxylipins in human plasma and response to treatment with omega-3 acid ethyl esters. Journal of Lipid Research, 2010, 51, 2074-2081.	2.0	97

#	Article	IF	Citations
37	Cytochrome P450 epoxygenases, soluble epoxide hydrolase, and the regulation of cardiovascular inflammation. Journal of Molecular and Cellular Cardiology, 2010, 48, 331-341.	0.9	152
38	Epoxyeicosatrienoic acids – Novel mechanism and pharmacological therapy of chronic renocardiac syndrome. Medical Hypotheses, 2011, 76, 550-552.	0.8	4
39	Soluble Epoxide Hydrolase Inhibitors and Heart Failure. Cardiovascular Therapeutics, 2011, 29, 99-111.	1.1	63
40	12- and 15-lipoxygenases in human carotid atherosclerotic lesions: Associations with cerebrovascular symptoms. Atherosclerosis, 2011, 215, 411-416.	0.4	68
41	Effects of Dynamic Exercise on Plasma Arachidonic Acid Epoxides and Diols in Human Volunteers. International Journal of Sport Nutrition and Exercise Metabolism, 2011, 21, 471-479.	1.0	20
42	Modulation of cytochrome-derived epoxyeicosatrienoic acids pathway: A promising pharmacological approach to prevent endothelial dysfunction in cardiovascular diseases?. , 2011, 131, 1-17.		50
43	Soluble epoxide hydrolase inhibition, epoxygenated fatty acids and nociception. Prostaglandins and Other Lipid Mediators, 2011, 96, 76-83.	1.0	58
44	Role of cytochrome P450 enzymes in the bioactivation of polyunsaturated fatty acids. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 210-222.	1.1	177
45	Activation of the Acute Inflammatory Response Alters Cytochrome P450 Expression and Eicosanoid Metabolism. Drug Metabolism and Disposition, 2011, 39, 22-29.	1.7	107
46	Soluble epoxide hydrolase deficiency alters pancreatic islet size and improves glucose homeostasis in a model of insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9038-9043.	3.3	130
47	Redox Regulation of Soluble Epoxide Hydrolase by 15-Deoxy-Δ-Prostaglandin J ₂ Controls Coronary Hypoxic Vasodilation. Circulation Research, 2011, 108, 324-334.	2.0	50
48	Endothelial CYP epoxygenase overexpression and soluble epoxide hydrolase disruption attenuate acute vascular inflammatory responses in mice. FASEB Journal, 2011, 25, 703-713.	0.2	113
49	Reno-protective mechanisms of epoxyeicosatrienoic acids in cardiovascular disease. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R321-R330.	0.9	38
50	Novel soluble epoxide hydrolase inhibitor protects mitochondrial function following stress. Canadian Journal of Physiology and Pharmacology, 2012, 90, 811-823.	0.7	37
51	Soluble epoxide hydrolase expression in a porcine model of arteriovenous graft stenosis and anti-inflammatory effects of a soluble epoxide hydrolase inhibitor. American Journal of Physiology - Cell Physiology, 2012, 303, C278-C290.	2.1	27
52	Inhibition of Soluble Epoxide Hydrolase Limits Niacin-induced Vasodilation in Mice. Journal of Cardiovascular Pharmacology, 2012, 60, 70-75.	0.8	9
53	Allergic Asthmatics Show Divergent Lipid Mediator Profiles from Healthy Controls Both at Baseline and following Birch Pollen Provocation. PLoS ONE, 2012, 7, e33780.	1.1	54
54	Epoxides and Soluble Epoxide Hydrolase in Cardiovascular Physiology. Physiological Reviews, 2012, 92, 101-130.	13.1	302

#	Article	IF	CITATIONS
55	Attenuation of Cisplatin-Induced Renal Injury by Inhibition of Soluble Epoxide Hydrolase Involves Nuclear Factor κB Signaling. Journal of Pharmacology and Experimental Therapeutics, 2012, 341, 725-734.	1.3	52
57	Inhibition of Soluble Epoxide Hydrolase Attenuates High-Fat-Diet–Induced Hepatic Steatosis by Reduced Systemic Inflammatory Status in Mice. PLoS ONE, 2012, 7, e39165.	1.1	95
58	Mechanism of the Sex Difference in Endothelial Dysfunction after Stroke. Translational Stroke Research, 2013, 4, 381-389.	2.3	38
59	Altered behavioral phenotypes in soluble epoxide hydrolase knockout mice: Effects of traumatic brain injury. Prostaglandins and Other Lipid Mediators, 2013, 104-105, 18-24.	1.0	22
60	Soluble epoxide hydrolase: Gene structure, expression and deletion. Gene, 2013, 526, 61-74.	1.0	174
61	Differential cardiotoxicity in response to chronic doxorubicin treatment in male spontaneous hypertension-heart failure (SHHF), spontaneously hypertensive (SHR), and Wistar Kyoto (WKY) rats. Toxicology and Applied Pharmacology, 2013, 273, 47-57.	1.3	22
62	Impact of Soluble Epoxide Hydrolase and Epoxyeicosanoids on Human Health. Annual Review of Pharmacology and Toxicology, 2013, 53, 37-58.	4.2	438
63	Adenosine A _{2A} receptor modulates vascular response in soluble epoxide hydrolase-null mice through CYP-epoxygenases and PPARγ. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R23-R32.	0.9	20
64	Soluble Epoxide Hydrolase Inhibition Does Not Prevent Cardiac Remodeling and Dysfunction After Aortic Constriction in Rats and Mice. Journal of Cardiovascular Pharmacology, 2013, 61, 291-301.	0.8	26
65	Arg287Cln variant of EPHX2 and epoxyeicosatrienoic acids are associated with insulin sensitivity in humans. Prostaglandins and Other Lipid Mediators, 2014, 113-115, 38-44.	1.0	36
66	Aberrant Soluble Epoxide Hydrolase and Oxylipin Levels in a Porcine Arteriovenous Graft Stenosis Model. Journal of Vascular Research, 2014, 51, 269-282.	0.6	1
67	Protection from hypertension in mice by the Mediterranean diet is mediated by nitro fatty acid inhibition of soluble epoxide hydrolase. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8167-8172.	3.3	79
68	Soluble epoxide hydrolase-dependent regulation of myogenic response and blood pressure. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1146-H1153.	1.5	33
69	The Pharmacology of the Cytochrome P450 Epoxygenase/Soluble Epoxide Hydrolase Axis in the Vasculature and Cardiovascular Disease. Pharmacological Reviews, 2014, 66, 1106-1140.	7.1	122
70	Design and discovery of soluble epoxide hydrolase inhibitors for the treatment of cardiovascular diseases. Expert Opinion on Drug Discovery, 2014, 9, 229-243.	2.5	28
71	Cytochrome P450 and Lipoxygenase Metabolites on Renal Function. , 2015, 6, 423-441.		21
72	Sexually dimorphic phenotype of arteriolar responsiveness to shear stress in soluble epoxide hydrolase-knockout mice. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1860-H1866.	1.5	16
73	Whatever Happened to the Epoxyeicosatrienoic Acid-Like Endothelium-Derived Hyperpolarizing Factor? The Identification of Novel Classes of Lipid Mediators and Their Role in Vascular Homeostasis. Antioxidants and Redox Signaling, 2015, 22, 1273-1292.	2.5	20

	CITATION R	EPORT	
#	Article	IF	Citations
74	Epoxyeicosatrienoic Acids, Hypertension, and Kidney Injury. Hypertension, 2015, 65, 476-482.	1.3	71
75	Inhibition of soluble epoxide hydrolase attenuates hepatic fibrosis and endoplasmic reticulum stress induced by carbon tetrachloride in mice. Toxicology and Applied Pharmacology, 2015, 286, 102-111.	1.3	70
76	Cytochrome P450-Derived Lipid Mediators and Vascular Responses. , 2015, , 209-231.		0
77	Soluble epoxide hydrolase activity regulates inflammatory responses and seizure generation in two mouse models of temporal lobe epilepsy. Brain, Behavior, and Immunity, 2015, 43, 118-129.	2.0	42
78	Effect of Soluble Epoxide Hydrolase on the Modulation of Coronary Reactive Hyperemia: Role of Oxylipins and PPARÎ ³ . PLoS ONE, 2016, 11, e0162147.	1.1	22
79	Vasopressin lowers renal epoxyeicosatrienoic acid levels by activating soluble epoxide hydrolase. American Journal of Physiology - Renal Physiology, 2016, 311, F1198-F1210.	1.3	2
80	Deletion of soluble epoxide hydrolase enhances coronary reactive hyperemia in isolated mouse heart: role of oxylipins and PPARγ. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R676-R688.	0.9	17
81	Salt Sensitivity of Blood Pressure. Hypertension, 2016, 68, e7-e46.	1.3	347
82	Sexually dimorphic adaptation of cardiac function: roles of epoxyeicosatrienoic acid and peroxisome proliferator-activated receptors. Physiological Reports, 2016, 4, e12838.	0.7	14
83	Metabolic perturbations of postnatal growth restriction and hyperoxia-induced pulmonary hypertension in a bronchopulmonary dysplasia model. Metabolomics, 2017, 13, 1.	1.4	23
84	Nanobody Based Immunoassay for Human Soluble Epoxide Hydrolase Detection Using Polymeric Horseradish Peroxidase (PolyHRP) for Signal Enhancement: The Rediscovery of PolyHRP?. Analytical Chemistry, 2017, 89, 6248-6256.	3.2	55
85	Dietary Docosahexaenoic Acid and <i>trans</i> â€10, <i>cis</i> â€12â€Conjugated Linoleic Acid Differentially Alter Oxylipin Profiles in Mouse Periuterine Adipose Tissue. Lipids, 2017, 52, 399-413.	0.7	9
86	Cytochrome P450 eicosanoids in cerebrovascular function and disease. , 2017, 179, 31-46.		40
87	Cytochrome P450-derived eicosanoids and heart function. , 2017, 179, 47-83.		97
88	Insulin induces a shift in lipid and primary carbon metabolites in a model of fasting-induced insulin resistance. Metabolomics, 2017, 13, 1.	1.4	9
89	Beyond detoxification: a role for mouse mEH in the hepatic metabolism of endogenous lipids. Archives of Toxicology, 2017, 91, 3571-3585.	1.9	14
90	Soluble epoxide hydrolase activation by S -nitrosation contributes to cardiac ischemia–reperfusion injury. Journal of Molecular and Cellular Cardiology, 2017, 110, 70-79.	0.9	12
91	Soluble Epoxide Hydrolase Inhibitor and 14,15-Epoxyeicosatrienoic Acid-Facilitated Long-Term Potentiation through cAMP and CaMKII in the Hippocampus. Neural Plasticity, 2017, 2017, 1-14.	1.0	12

#	Article	IF	CITATIONS
92	Vascular Endothelial Over-Expression of Human Soluble Epoxide Hydrolase (Tie2-sEH Tr) Attenuates Coronary Reactive Hyperemia in Mice: Role of Oxylipins and ω-Hydroxylases. PLoS ONE, 2017, 12, e0169584.	1.1	10
93	Generation and characterization of epoxide hydrolase 3 (EPHX3)-deficient mice. PLoS ONE, 2017, 12, e0175348.	1.1	13
94	Abnormal lipoprotein oxylipins in metabolic syndrome and partial correction by omega-3 fatty acids. Prostaglandins Leukotrienes and Essential Fatty Acids, 2018, 128, 1-10.	1.0	34
95	Deletion of soluble epoxide hydrolase attenuates mice Hyperoxic acute lung injury. BMC Anesthesiology, 2018, 18, 48.	0.7	17
96	Soluble Epoxide Hydrolase Plays a Vital Role in Angiotensin II-Induced Lung Injury in Mice. Shock, 2018, 50, 589-594.	1.0	19
97	Lipid profiling in serum from apolipoprotein E-knock out mice fed with different diets and its application to the study of the regulatory effect on lipid metabolism. Food and Function, 2018, 9, 5103-5114.	2.1	12
98	Mammalian Epoxide Hydrolases. , 2018, , 308-325.		1
99	An improved Ultra-High Performance Liquid chromatography-tandem mass spectrometry method for simultaneous quantitation of cytochrome P450 metabolites of arachidonic acid in human plasma. Journal of Chromatography A, 2018, 1563, 144-153.	1.8	7
100	Role of oxylipins in cardiovascular diseases. Acta Pharmacologica Sinica, 2018, 39, 1142-1154.	2.8	90
101	Genetic Deletion or Pharmacological Inhibition of Soluble Epoxide Hydrolase Ameliorates Cardiac Ischemia/Reperfusion Injury by Attenuating NLRP3 Inflammasome Activation. International Journal of Molecular Sciences, 2019, 20, 3502.	1.8	21
102	Epoxyeicosatrienoic acids alleviate methionineâ€cholineâ€deficient diet–induced nonâ€alcoholic steatohepatitis in mice. Scandinavian Journal of Immunology, 2019, 90, e12791.	1.3	15
103	Serum and Fecal Oxylipins in Patients with Alcohol-Related Liver Disease. Digestive Diseases and Sciences, 2019, 64, 1878-1892.	1.1	35
104	Vitamin D supplementation alters the expression of genes associated with hypertension and did not induce DNA damage in rats. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2019, 82, 299-313.	1.1	10
105	Liver Soluble Epoxide Hydrolase Regulates Behavioral and Cellular Effects of Chronic Stress. Cell Reports, 2019, 29, 3223-3234.e6.	2.9	35
106	CYP-derived eicosanoids: Implications for rheumatoid arthritis. Prostaglandins and Other Lipid Mediators, 2020, 146, 106405.	1.0	20
107	Investigating global gene expression changes in a murine model of cherubism. Bone, 2020, 135, 115315.	1.4	0
108	Pathogenic mechanisms of lipid mediator lysophosphatidic acid in chronic pain. Progress in Lipid Research, 2021, 81, 101079.	5.3	21
109	A thiol redox sensor in soluble epoxide hydrolase enables oxidative activation by intra-protein disulfide bond formation. Redox Biology, 2021, 46, 102107.	3.9	3

#	Article	IF	Citations
110	Soluble Epoxide Hydrolase as a Stroke Target. , 2012, , 277-294.		1
111	Mammalian Epoxide Hydrolases*. , 2010, , 275-294.		2
112	Opposite Effects of Gene Deficiency and Pharmacological Inhibition of Soluble Epoxide Hydrolase on Cardiac Fibrosis. PLoS ONE, 2014, 9, e94092.	1.1	49
113	Renal Ischemia/Reperfusion Injury in Soluble Epoxide Hydrolase-Deficient Mice. PLoS ONE, 2016, 11, e0145645.	1.1	22
114	Association of gain-of-function EPHX2 polymorphism Lys55Arg with acute kidney injury following cardiac surgery. PLoS ONE, 2017, 12, e0175292.	1.1	19
115	Soluble Epoxide Hydrolase: Potential Target for Inflammation and Inflammation-Driven Cancer. Journal of Carcinogenesis & Mutagenesis, 2017, 08, .	0.3	1
116	Bioactive lipid profiling reveals drug target engagement of a soluble epoxide hydrolase inhibitor in a murine model of tobacco smoke exposure. Journal of Metabolomics, 2015, 1, 1.	0.7	3
117	Insulin resistance and endothelial dysfunction: Are epoxyeicosatrienoic acids the link?. Experimental and Clinical Cardiology, 2009, 14, e41-50.	1.3	13
119	Soluble epoxide hydrolase deficiency inhibits dextran sulfate sodium-induced colitis and carcinogenesis in mice. Anticancer Research, 2013, 33, 5261-5271.	0.5	27
120	Orally active epoxyeicosatrienoic acid analogs in hypertension and renal injury. Advances in Pharmacology, 2022, , .	1.2	0
121	CRISPR/Cas9-mediated inactivation of the phosphatase activity of soluble epoxide hydrolase prevents obesity and cardiac ischemic injury. Journal of Advanced Research, 2023, 43, 163-174.	4.4	7
122	Redox Regulation of Soluble Epoxide Hydrolase—Implications for Cardiovascular Health and Disease. Cells, 2022, 11, 1932.	1.8	4
123	Cardiomyocyte-specific disruption of soluble epoxide hydrolase limits inflammation to preserve cardiac function. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 323, H670-H687.	1.5	6
124	Blood Levels of Endocannabinoids, Oxylipins, and Metabolites Are Altered in Hemodialysis Patients. International Journal of Molecular Sciences, 2022, 23, 9781.	1.8	3
125	Role of epoxyeicosatrienoic acids in cardiovascular diseases and cardiotoxicity of drugs. Life Sciences, 2022, 310, 121122.	2.0	2
126	Lipid mediators generated by the cytochrome P450—Epoxide hydrolase pathway. Advances in Pharmacology, 2023, , 327-373.	1.2	2