

Linoleic acid and dihomogammalinolenic acid inhibit le
stimulate the formation of their 15-lipoxygenase produ
Evidence of formation of antiinflammatory compounds

Agents and Actions

33, 286-291

DOI: 10.1007/bf01986575

Citation Report

#	ARTICLE	IF	CITATIONS
1	Effect of dihomo-gammalinolenic acid and its 15-lipoxygenase metabolite on eicosanoid metabolism by human mononuclear leukocytes in vitro: selective inhibition of the 5-lipoxygenase pathway. Archives of Dermatological Research, 1992, 284, 222-226.	1.1	41
2	Biochemical and nutritional aspects of eicosanoids. Journal of Nutritional Biochemistry, 1992, 3, 562-579.	1.9	54
3	Influence of phospholipid liposomes (PLL) on UVB-induced erythema formation. Archives of Dermatological Research, 1993, 285, 428-431.	1.1	7
4	Stearidonic acid, an inhibitor of the 5-lipoxygenase pathway. A comparison with timnodonic and dihomo-gammalinolenic acid. Lipids, 1993, 28, 321-324.	0.7	46
5	13-HODE increases intracellular calcium in vascular smooth muscle cells. American Journal of Physiology - Cell Physiology, 1994, 266, C990-C996.	2.1	29
6	The fern <i>Polypodium decumanum</i> , used in the treatment of psoriasis, and its fatty acid constituents as inhibitors of leukotriene B ₄ formation. Prostaglandins Leukotrienes and Essential Fatty Acids, 1994, 50, 279-284.	1.0	34
7	Effects of dietary $\hat{1}^3$ -linolenic acid-enriched evening primrose seed oil on the 5-lipoxygenase pathway of neutrophil leukocytes in patients with atopic dermatitis. Journal of Dermatological Treatment, 1995, 6, 211-218.	1.1	4
8	Botanical lipids: Effects on inflammation, immune responses, and rheumatoid arthritis. Seminars in Arthritis and Rheumatism, 1995, 25, 87-96.	1.6	25
9	Incorporation of 15-hydroxyeicosatrienoic acid in specific phospholipids of cultured human keratinocytes and psoriatic plaques. Experimental Dermatology, 1995, 4, 74-78.	1.4	11
10	Interleukin-1 Enhances the Ability of Cultured Human Umbilical Vein Endothelial Cells to Oxidize Linoleic Acid. Journal of Biological Chemistry, 1995, 270, 17279-17286.	1.6	56
11	Changes in the fatty acid composition of immune cells and plasma by intravenous injection of diho- $\hat{1}^3$ -linolenic acid in mice. Prostaglandins Leukotrienes and Essential Fatty Acids, 1995, 52, 289-292.	1.0	0
12	Eicosanoids, fatty acids and neutrophils: Their relevance to the pathophysiology of disease. Prostaglandins Leukotrienes and Essential Fatty Acids, 1995, 53, 75-86.	1.0	31
13	The suppression of 5-lipoxygenation of arachidonic acid in human polymorphonuclear leucocytes by the 15-lipoxygenase product (15 <i>S</i>)-hydroxy-(5 <i>Z</i> ,8 <i>Z</i> ,11 <i>Z</i> ,13 <i>E</i>)-eicosatetraenoic acid: structure-activity relationship and mechanism of action. Biochemical Journal, 1996, 314, 911-916.	1.7	41
14	Prostaglandin H-Synthase-2 Is the Main Enzyme Involved in the Biosynthesis of Octadecanoids from Linoleic Acid in Human Dermal Fibroblasts Stimulated with Interleukin- $\hat{1}^2$. Journal of Investigative Dermatology, 1996, 107, 726-732.	0.3	28
15	Dietary Supplementation with $\hat{1}^3$ -Linolenic Acid Alters Fatty Acid Content and Eicosanoid Production in Healthy Humans. Journal of Nutrition, 1997, 127, 1435-1444.	1.3	151
16	Gammalinolenic acid treatment of rheumatoid arthritis. , 1998, , 29-43.		6
17	Effect of 15-Hete on the 5-Lipoxygenase Pathway in Neutrophils. Advances in Experimental Medicine and Biology, 1999, 447, 95-105.	0.8	7
18	A high level of dihomo-gammalinolenic acid in brown alga <i>Sargassum pallidum</i> (Turn.). Phytochemistry, 1999, 50, 1209-1211.	1.4	12

#	ARTICLE	IF	CITATIONS
19	Addition of Eicosapentaenoic Acid to $\hat{3}$ -Linolenic Acidâ€“Supplemented Diets Prevents Serum Arachidonic Acid Accumulation in Humans. <i>Journal of Nutrition</i> , 2000, 130, 1925-1931.	1.3	103
20	Effect of corticosteroids and eicosapentaenoic acid/docosahexaenoic acid on pro-oxidant and anti-oxidant status and metabolism of essential fatty acids in patients with glomerular disorders. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2001, 65, 197-203.	1.0	32
21	Fatty acids and lymphocyte functions. <i>British Journal of Nutrition</i> , 2002, 87, S31-S48.	1.2	559
22	Local application of n $\hat{3}$ n $\hat{6}$ polyunsaturated fatty acids in the treatment of human experimental gingivitis. <i>Journal of Clinical Periodontology</i> , 2002, 29, 364-369.	2.3	40
23	Asymmetric synthesis of unnatural (Z,Z,E)-octadecatrienoid and eicosatrienoid by lipoxygenase-catalyzed oxygenation. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 1799-1806.	1.8	8
25	Suppression of Leukotriene B4 Generation by Ex-vivo Neutrophils Isolated from Asthma Patients on Dietary Supplementation with Gammalinolenic Acid-containing Borage Oil: Possible Implication in Asthma. <i>Clinical and Developmental Immunology</i> , 2004, 11, 13-21.	3.3	37
26	Determination of endogenous tissue inflammation profiles by LC/MS/MS: COX- and LOX-derived bioactive lipids. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2006, 75, 385-395.	1.0	72
27	Heterologous Production of Dihomo- $\hat{3}$ -Linolenic Acid in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 6965-6971.	1.4	41
28	Effect of Conjugated Linoleic Acids on the Activity and mRNA Expression of 5- and 15-Lipoxygenases in Human Macrophages. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 5335-5342.	2.4	18
30	Clinical study of the effects on asthma-related QOL and asthma management of a medical food in adult asthma patients. <i>Current Medical Research and Opinion</i> , 2009, 25, 2865-2875.	0.9	11
31	Dietary Supplementation of Gamma-Linolenic Acid Improves Skin Parameters in Subjects with Dry Skin and Mild Atopic Dermatitis. <i>Journal of Oleo Science</i> , 2011, 60, 597-607.	0.6	47
32	Deciphering the mechanism(s) of action of natural products: analgesic peroxide oil as example. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2011, 36, 283-298.	0.7	5
33	Regulation of Neutrophil Functions by Long Chain Fatty Acids. , 2013, , 241-309.		0
34	Inflammation, Cancer and Oxidative Lipoxygenase Activity are Intimately Linked. <i>Cancers</i> , 2014, 6, 1500-1521.	1.7	124
35	Advances in Our Understanding of Oxylipins Derived from Dietary PUFAs. <i>Advances in Nutrition</i> , 2015, 6, 513-540.	2.9	524
36	Gamma-linolenic acid, Dihommo-gamma linolenic, Eicosanoids and Inflammatory Processes. <i>European Journal of Pharmacology</i> , 2016, 785, 77-86.	1.7	176
37	Linoleic acid participates in the response to ischemic brain injury through oxidized metabolites that regulate neurotransmission. <i>Scientific Reports</i> , 2017, 7, 4342.	1.6	36
38	Comparison of eight 15-lipoxygenase (LO) inhibitors on the biosynthesis of 15-LO metabolites by human neutrophils and eosinophils. <i>PLoS ONE</i> , 2018, 13, e0202424.	1.1	34

#	ARTICLE	IF	CITATIONS
39	Anti-Inflammatory and Proresolving Effects of the Omega-6 Polyunsaturated Fatty Acid Adrenic Acid. <i>Journal of Immunology</i> , 2020, 205, 2840-2849.	0.4	33
40	Diet and Skin Barrier: The Role of Dietary Interventions on Skin Barrier Function. <i>Dermatology Practical and Conceptual</i> , 2021, 11, e2021132.	0.5	13
41	Soybean oil lowers circulating cholesterol levels and coronary heart disease risk, and has no effect on markers of inflammation and oxidation. <i>Nutrition</i> , 2021, 89, 111343.	1.1	22
42	Low circulating dihomo-gamma-linolenic acid is associated with diabetic retinopathy: a cross sectional study of KAMOGAWA-DM cohort study. <i>Endocrine Journal</i> , 2021, 68, 421-428.	0.7	8
43	MARINE AND BOTANICAL LIPIDS AS IMMUNOMODULATORY AND THERAPEUTIC AGENTS IN THE TREATMENT OF RHEUMATOID ARTHRITIS. <i>Rheumatic Disease Clinics of North America</i> , 1995, 21, 759-777.	0.8	37
44	Regulation of Neutrophil Functions by Long Chain Fatty Acids. , 2005, , 169-228.		8
45	Benzoylperoxid (BPO) und AzelainsÄure (AZ). , 2000, , 199-220.		0
46	Suppression of Leukotriene B4 Generation by ex vivo Neutrophils Isolated from Asthma Patients on Dietary Supplementation with gamma-Linolenic Acid-containing Borage Oil. , 2006, , 138-154.		0
47	Potential Health Benefits of n-3 and -6 Fatty Acids in Selected Plant Seed Oils in Rheumatoid Arthritis. , 2011, , 385-401.		0
48	Keratinocytes as a cellular source of inflammatory eicosanoids. , 1999, , 103-133.		0
50	Lipid Mediators in Cardiovascular Physiology and Disease. , 2022, , 235-258.		0
51	Relationships between plasma fatty acids in adults with mild, moderate, or severe COVID-19 and the development of post-acute sequelae. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	3
52	Eicosanoids in inflammation in the blood and the vessel. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	28
53	The Plasma Oxylipin Signature Provides a Deep Phenotyping of Metabolic Syndrome Complementary to the Clinical Criteria. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11688.	1.8	4
54	Dietary Application of the Microalga <i>Lobosphaera incisa</i> P127 Reduces Severity of Intestinal Inflammation, Modulates Gut-Associated Gene Expression, and Microbiome in the Zebrafish Model of IBD. <i>Molecular Nutrition and Food Research</i> , 2023, 67, .	1.5	3