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## Inositol trisphosphate, a novel second messenger in cellular signal transduction

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#	Paper	IF	Citations
2264	Signaling Pathways of the Neuroendocrine-Immune Network1. <b>1992</b> , 52, 170-190		
2263	References. <b>1980</b> , 8, 335-353		
2262	Inositol phosphate formation in fMet-Leu-Phe-stimulated human neutrophils does not require an increase in the cytosolic free Ca <sup>2+</sup> concentration. <i>Biochemical Journal</i> , <b>1985</b> , 229, 361-7	3.8	87
2261	Inositol 1,4,5-trisphosphate-induced release of sequestered Ca <sup>2+</sup> from highly purified human platelet intracellular membranes. <i>Biochemical Journal</i> , <b>1985</b> , 230, 247-53	3.8	121
2260	Decanoyl lysophosphatidic acid induces platelet aggregation through an extracellular action. Evidence against a second messenger role for lysophosphatidic acid. <i>Biochemical Journal</i> , <b>1985</b> , 232, 61-6	3.8	72
2259	The digitonin-permeabilized pancreatic islet model. Effect of myo-inositol 1,4,5-trisphosphate on Ca <sup>2+</sup> mobilization. <i>Biochemical Journal</i> , <b>1985</b> , 227, 965-9	3.8	67
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2257	Further evidence that muscarinic cholinergic receptors of 1321N1 astrocytoma cells couple to a guanine nucleotide regulatory protein that is not Ni. <i>Biochemical Journal</i> , <b>1985</b> , 229, 539-44	3.8	40
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2091	Phorbol 12, myristate 13, acetate potentiates the respiratory burst while inhibits phosphoinositide hydrolysis and calcium mobilization by formyl-methionyl-leucyl-phenylalanine in human neutrophils. <b>1986</b> , 135, 556-65	67
2090	Inositol 1,4,5-trisphosphate enhances Ca <sup>2+</sup> -sensitivity of the contractile mechanism of chemically skinned rabbit skeletal muscle fibres. <b>1986</b> , 135, 662-9	33
2089	Role of calcium on TPA-induced secretion of ACTH and PGE <sub>2</sub> by pituitary cells: effect of dexamethasone. <b>1986</b> , 138, 323-9	8
2088	Evidence that phosphoinositide response is mediated by alpha 1-adrenoceptor stimulation, but not linked with excitation-contraction coupling in cardiac muscle. <b>1986</b> , 136, 863-9	31
2087	The effects of a calcium and a sodium ionophore on protein synthesis inhibition by a bovine cell surface sialoglycopeptide. <b>1986</b> , 136, 976-82	11
2086	Diocanoylglycerol and phorbol diesters enhance phosphorylation of phosphoprotein B-50 in native synaptic plasma membranes. <b>1986</b> , 136, 1007-12	37

2085	Inhibition of calcium flux and calcium channel antagonist binding in the PC12 neural cell line by phorbol esters and protein kinase C. <b>1986</b> , 136, 1049-56	47
2084	Partial purification of phosphoinositide phospholipase C from human platelet cytosol; characterization of its three forms. <b>1986</b> , 136, 713-21	68
2083	Coordinate actions of arachidonic acid and protein kinase C in gonadotropin-releasing hormone-stimulated secretion of luteinizing hormone. <b>1986</b> , 134, 134-9	44
2082	Characterization of D-myo-inositol 1,4,5-trisphosphate phosphatase in rat brain. <b>1986</b> , 134, 351-8	61
2081	Intracellular Ca <sup>2+</sup> requirements for zymosan-stimulated phosphoinositide hydrolysis in mouse peritoneal macrophages. <b>1986</b> , 134, 367-71	15
2080	The role of guanyl nucleotide binding proteins in the formation of inositol phosphates in adrenal glomerulosa cells. <b>1986</b> , 140, 941-7	25
2079	Accessibility of cell surface thiols in human lymphocytes is altered by ionophores or OKT-3 antibody. <b>1986</b> , 140, 999-1006	21
2078	Inositol phospholipid and intracellular calcium metabolism in B lymphocytes stimulated with antigen. <b>1986</b> , 140, 1079-85	9
2077	Messenger RNA for a phorbol-ester induced 48,000 dalton protein from human melanoma cells. <b>1986</b> , 136, 122-9	1
2076	A guanine nucleotide-dependent regulatory protein couples substance P receptors to phospholipase C in rat parotid gland. <b>1986</b> , 136, 362-8	93
2075	Inositol 1,4,5-trisphosphate-induced Ca <sup>2+</sup> release from permeabilized mastocytoma cells. <b>1986</b> , 135, 46-51	8
2074	Redistribution of protein kinase C during mitogenesis of human B lymphocytes. <b>1986</b> , 135, 146-53	68
2073	Dual activation of the inositol-triphosphate-calcium and cyclic nucleotide intracellular signaling systems by adrenocorticotropin in rat adrenal cells. <b>1986</b> , 135, 742-8	64
2072	Inhibitory action of cyclic GMP on secretion, polyphosphoinositide hydrolysis and calcium mobilization in thrombin-stimulated human platelets. <b>1986</b> , 135, 1099-104	123
2071	Double stimulation with FMLP and Con A restores the activation of the respiratory burst but not of the phosphoinositide turnover in Ca <sup>2+</sup> -depleted human neutrophils. A further example of dissociation between stimulation of the NADPH oxidase and phosphoinositide turnover. <b>1986</b> , 140, 1-11	43
2070	Comparison of the changes in cytoplasmic free calcium concentration induced by phenylephrine, vasopressin and angiotensin II in hepatocytes. <b>1986</b> , 140, 107-13	15
2069	Phorbol esters alter muscarinic receptor binding and inhibit polyphosphoinositide breakdown in human neuroblastoma (SH-SY5Y) cells. <b>1986</b> , 140, 160-6	40
2068	DNA synthesis induced by the neuropeptide substance K correlates to the level of myc-gene transcripts. <b>1986</b> , 137, 167-74	19

2067	PDGF-induced receptor phosphorylation and phosphoinositide hydrolysis are unaffected by protein kinase C activation in mouse Swiss 3T3 and human skin fibroblasts. <b>1986</b> , 137, 343-50	47
2066	Phosphatidylinositol-specific phospholipase C of murine lymphocytes. <b>1986</b> , 249, 569-78	20
2065	Phorbol diester treatment promotes enhanced adenylate cyclase activity in frog erythrocytes. <b>1986</b> , 244, 373-81	71
2064	Endogenous phosphorylation of proteins and phosphatidylinositol in the plasma membranes of a human astrocytoma. <b>1986</b> , 249, 76-87	5
2063	Rapid incorporation of the solubilized dihydropyridine receptor into phospholipid vesicles. <b>1986</b> , 863, 205-12	8
2062	Non-competitive inhibition of myo-inositol transport in cultured bovine retinal capillary pericytes by glucose and reversal by Sorbinil. <b>1986</b> , 857, 198-208	61
2061	The interaction of protein kinase C and other specific cytoplasmic proteins with phospholipid bilayers. <b>1986</b> , 860, 336-44	17
2060	Increased labelling of polyphosphoinositide in chemically transformed cell line C3H10T1/2 CL8. <b>1986</b> , 875, 1-5	5
2059	Evidence for a catalytic role of phospholipase A in phorbol diester- and zymosan-induced mobilization of arachidonic acid in mouse peritoneal macrophages. <b>1986</b> , 876, 533-42	71
2058	Glucose-induced phospholipid hydrolysis in isolated pancreatic islets: quantitative effects on the phospholipid content of arachidonate and other fatty acids. <b>1986</b> , 879, 399-409	74
2057	Effect of diabetes and Sorbinil treatment on phospholipid metabolism in rat glomeruli. <b>1986</b> , 876, 226-32	5
2056	An ATP-dependent and inositol trisphosphate-sensitive Ca <sup>2+</sup> pool linked with microfilaments of the parietal cell. <b>1986</b> , 207, 47-52	15
2055	Neomycin inhibits inositol phosphate formation in human platelets stimulated by thrombin but not other agonists. <b>1986</b> , 207, 53-7	39
2054	An examination of the ability of inositol 1,4,5-trisphosphate to induce calcium release and tension development in skinned skeletal muscle fibres of frog and crustacea. <b>1986</b> , 207, 153-61	39
2053	Stimulation of parathyroid hormone secretion by phorbol esters is associated with a decrease of cytosolic calcium. <b>1986</b> , 194, 215-8	15
2052	Agents that elevate platelet cAMP stimulate the formation of phosphatidylinositol 4-phosphate in intact human platelets. <b>1986</b> , 195, 115-8	38
2051	Alpha 1-adrenergic activation of brown adipocytes leads to an increased formation of inositol polyphosphates. <b>1986</b> , 195, 319-22	42
2050	Two phases of inositol polyphosphate and diacylglycerol production at fertilisation. <b>1986</b> , 195, 347-51	126

2049	Defects of thrombin-induced protein phosphorylation in platelets from stroke-prone spontaneously hypertensive rats. <b>1986</b> , 196, 139-44	6
2048	Activation of membrane phospholipase C by vasopressin. A requirement for guanyl nucleotides. <b>1986</b> , 196, 155-9	57
2047	Role of inositol 1,4,5-trisphosphate in excitation-contraction coupling in skeletal muscle. <b>1986</b> , 197, 1-4	47
2046	Maitotoxin stimulates the formation of inositol phosphates in rat aortic myocytes. <b>1986</b> , 197, 349-52	26
2045	Muscarinic stimulation of inositol phosphate accumulation and acid secretion in gastric fundic mucosal cells. <b>1986</b> , 198, 321-5	12
2044	Acetylcholine- and inositol 1,4,5-trisphosphate-induced calcium mobilization in <i>Xenopus laevis</i> oocytes. <b>1986</b> , 199, 208-12	37
2043	Activation of phosphatidylinositol synthesis by different agonists in a primary culture of smooth muscle cells grown on collagen microcarriers. <b>1986</b> , 200, 27-31	25
2042	A step sensitive to pertussis toxin and phorbol ester in human neutrophils regulates chemotaxis and capping but not phagocytosis. <b>1986</b> , 200, 91-6	27
2041	Carbachol and oxytocin stimulate the generation of inositol phosphates in the guinea pig myometrium. <b>1986</b> , 201, 9-14	126
2040	Activation of phosphatidylinositol turnover by neurotensin receptors in the human colonic adenocarcinoma cell line HT29. <b>1986</b> , 201, 31-6	94
2039	Potentiation and inhibition of secretion from neutrophils by phorbol ester. <b>1986</b> , 201, 137-42	19
2038	Phosphorylation of phosphatidylinositols in isolated plant membranes. <b>1986</b> , 201, 282-286	61
2037	Tumour promoter 12-O-tetradecanoylphorbol 13-acetate inhibits angiotensin II-induced inositol phosphate production and cytosolic Ca <sup>2+</sup> rise in rat renal mesangial cells. <b>1986</b> , 203, 262-6	44
2036	Activation of polyphosphoinositide phospholipase C by fluoride in WRK1 cell membranes. <b>1986</b> , 204, 183-8	45
2035	Rapid effects of phorbol ester on platelet shape change, cytoskeleton and calcium transient. <b>1986</b> , 206, 273-8	17
2034	Inositol phosphate production following alpha 1-adrenergic, muscarinic or electrical stimulation in isolated rat heart. <b>1986</b> , 206, 292-8	109
2033	Membrane current responses to intracellular injections of inositol 1,3,4,5-tetrakisphosphate and inositol 1,3,4-trisphosphate in NG108-15 hybrid cells. <b>1986</b> , 208, 283-6	56
2032	Human chorionic gonadotropin activates the inositol 1,4,5-trisphosphate-Ca <sup>2+</sup> intracellular signalling system in bovine luteal cells. <b>1986</b> , 208, 287-91	21

2031	The formation of inositol phosphate derivatives by isolated membranes from <i>Acer pseudoplatanus</i> is stimulated by guanine nucleotides. <b>1986</b> , 208, 413-417	45
2030	Phospholipase C in rat liver plasma membranes. Phosphoinositide specificity and regulation by guanine nucleotides and calcium. <b>1986</b> , 198, 85-8	50
2029	Thrombin and IgE antigen induce formation of inositol phosphates by mouse E-mast cells. <b>1986</b> , 206, 64-8	6
2028	Cytosolic Ca <sup>2+</sup> and the regulation of secretion in parathyroid cells. <b>1986</b> , 203, 15-9	131
2027	Early rise of cytosolic Ca <sup>2+</sup> induced by NGF in PC12 and chromaffin cells. <b>1986</b> , 208, 48-51	82
2026	Receptors and phosphoinositide metabolism in the central nervous system. <b>1986</b> , 35, 2447-53	97
2025	Involvement of K <sup>+</sup> movements in the membrane signal induced by PAF-acether. <b>1986</b> , 35, 2811-5	29
2024	Translocation of protein kinase C in rat hippocampal slices. <b>1986</b> , 385, 174-8	27
2023	Phorbol esters and diacylglycerol inhibit vasopressin-induced increases in cytoplasmic-free Ca <sup>2+</sup> and <sup>45</sup> Ca <sup>2+</sup> efflux in Swiss 3T3 cells. <b>1986</b> , 164, 536-45	39
2022	Colcemid inhibits growth during early G1 in normal but not in tumorigenic lymphocytes. <b>1986</b> , 167, 241-51	16
2021	Cellular compartmentation of calcium in mouse fibroblasts in vitro depends on cell density and transformation. <b>1986</b> , 163, 279-86	4
2020	The relative potencies of two known locust adipokinetic hormones. <b>1986</b> , 32, 95-101	50
2019	Possible existence of two mechanisms involved in alpha 1-adrenergic action: effect of Sgd 101/75. <b>1986</b> , 125, 103-10	7
2018	Protein kinase C regulates smooth muscle tension in guinea-pig trachea and ileum. <b>1986</b> , 122, 19-27	59
2017	Histamine-induced hydrolysis of polyphosphoinositides in guinea-pig ileum and brain. <b>1986</b> , 124, 255-65	29
2016	Phospholipase C contracts visceral smooth muscle. <b>1986</b> , 131, 149-52	5
2015	1-Oleoyl-2-acetyl-glycerol and phorbol diester stimulate Ca <sup>2+</sup> influx through Ca <sup>2+</sup> channels in neuroblastoma x glioma hybrid NG108-15 cells. <b>1986</b> , 126, 47-51	22
2014	Acute desensitization to angiotensin II: evidence for a requirement of agonist-induced diacylglycerol production during tonic contraction of rat aorta. <b>1986</b> , 126, 135-9	20

2013	Gap junction channel modulation--a physiological viewpoint. <b>1986</b> , 48, 127-53		34
2012	Excitation and adaptation of Limulus photo-receptors by light and Inositol 1,4,5-trisphosphate. <b>1986</b> , 9, 110-114		36
2011	Opioid receptor types and membrane ion channels. <b>1986</b> , 9, 114-117		221
2010	Inositol phosphates: concord or confusion?. <b>1986</b> , 9, 394-396		13
2009	Brain receptors: the emergence of a new pharmacology. <b>1986</b> , 9, 455-459		8
2008	Synaptic mechanisms. <b>1986</b> , 9, 468-470		4
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2006	Protein kinase C: a key regulator of neuronal excitability?. <b>1986</b> , 9, 538-541		54
2005	Of nerve growth cones, leukocytes and memory: second messenger systems and growth-regulated proteins. <b>1986</b> , 9, 562-565		51
2004	Effect of ethanol on receptor-stimulated phosphatidic acid and polyphosphoinositide metabolism in mouse brain. <b>1986</b> , 39, 1675-84		32
2003	Stimulation of phosphatidylinositol metabolism in atrial and ventricular myocytes. <b>1986</b> , 39, 2215-20		26
2002	Vascular vasopressin receptors mediate phosphatidylinositol turnover and calcium efflux in an established smooth muscle cell line. <b>1986</b> , 39, 37-45		57
2001	Regulation of phosphoinositide breakdown by guanine nucleotides. <b>1986</b> , 39, 187-94		149
2000	Inositol phosphates turnover, cytosolic Ca <sup>++</sup> and pH: putative signals for the control of cell growth. <b>1986</b> , 38, 2269-76		68
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1997	Differences in phospholipid incorporation of <sup>32</sup> P relevant to alpha 1-receptor coupling events in rat and rabbit aorta. <b>1986</b> , 141, 1213-21		6
1996	Kinetic differences between thrombin-induced and ADP-induced calcium influx and release from internal stores in fura-2-loaded human platelets. <b>1986</b> , 136, 1124-9		95



1995	Rundown of GH3 cell K <sup>+</sup> conductance response to TRH following patch recording can be obviated with GH3 cell extract. <b>1986</b> , 137, 388-96		32
1994	Pathophysiology of "cholinoceptor supersensitivity" in affective disorders. <b>1986</b> , 21, 813-29		86
1993	Sequential control of meiosis reinitiation by pH and Ca <sup>2+</sup> in oocytes of the prosobranch mollusk <i>Patella vulgata</i> . <b>1986</b> , 114, 315-324		29
1992	Arachidonic acid metabolism in starfish oocytes. <b>1986</b> , 114, 22-33		27
1991	Protein kinase C translocation in relation to proliferative state of C3H 10T1/2 cells. <b>1986</b> , 206, 283-6		20
1990	Abnormal vascular phosphoinositide hydrolysis in the spontaneously hypertensive rat. <i>British Journal of Pharmacology</i> , <b>1986</b> , 89, 803-7	8.6	35
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1986	A p60v-src-related tyrosine kinase in the acetylcholine receptor-rich membranes of <i>Narke japonica</i> : association and dissociation of phosphatidylinositol kinase activity. <b>1986</b> , 139, 473-9		4
1985	Inhibition by antioxidants of agonist evoked cytosolic Ca <sup>++</sup> increase, ATP secretion and aggregation of aspirinated human platelets. <b>1986</b> , 139, 509-14		21
1984	Calcium uptake by intracellular compartments in permeabilised enterocytes. Effect of inositol 1,4,5 trisphosphate. <b>1986</b> , 139, 612-8		15
1983	Interconversion of inositol (1,4,5)-trisphosphate to inositol (1,3,4,5)-tetrakisphosphate and (1,3,4)-trisphosphate in permeabilized adrenal glomerulosa cells is calcium-sensitive and ATP-dependent. <b>1986</b> , 139, 259-65		46
1982	Thrombin and ionomycin can raise platelet cytosolic Ca <sup>2+</sup> to micromolar levels by discharge of internal Ca <sup>2+</sup> stores: studies using fura-2. <b>1986</b> , 139, 308-14		135
1981	Conversion of protein kinase C from a Ca <sup>2+</sup> -dependent to an independent form of phorbol ester-binding protein by digestion with trypsin. <b>1986</b> , 139, 320-6		76
1980	Calmodulin inhibits inositol trisphosphate-induced Ca <sup>2+</sup> mobilization from the endoplasmic reticulum of islets. <b>1986</b> , 141, 418-25		19
1979	Carbamylcholine, TRH, PGF <sub>2</sub> alpha and fluoride enhance free intracellular Ca <sup>++</sup> and Ca <sup>++</sup> translocation in dog thyroid cells. <b>1986</b> , 141, 569-77		23
1978	Reversible shape change in platelets is regulated by phosphatidylinositol metabolism. <b>1986</b> , 141, 673-81		3

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1976	Arachidonic acid releasing systems in pig aorta endothelial cells. <b>1986</b> , 139, 1098-103	8
1975	Inhibition of inositol phospholipids metabolism and calcium mobilization by cyclic AMP-increasing agents and phorbol ester in neutrophils. <b>1986</b> , 139, 1272-8	47
1974	Effect of elastin peptides on human monocytes: Ca <sup>2+</sup> mobilization, stimulation of respiratory burst and enzyme secretion. <b>1986</b> , 141, 92-8	92
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1967	Calcium-dependent activation of glycogen phosphorylase in rat pheochromocytoma PC12 cells by nerve growth factor. <b>1986</b> , 138, 917-24	9
1966	Effects of substance P on inositol triphosphate accumulation, on contractile responses and on arachidonic acid release and prostaglandin biosynthesis in rabbit iris sphincter muscle. <b>1986</b> , 43, 215-26	30
1965	Ca <sup>2+</sup> Signalling in Exocrine Glands in Comparison to That in Vascular Smooth Muscle Cells. <b>1986</b> , 488, 240-251	1
1964	Signal Transduction in Insulin Secretion:.. <b>1986</b> , 488, 317-333	44
1963	Oncogenes and Phosphatidylinositol Turnover. <b>1986</b> , 488, 481-490	7
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1961	v-ras genes from Harvey and BALB murine sarcoma viruses can act as initiators of two-stage mouse skin carcinogenesis. <b>1986</b> , 46, 447-56	223
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1940	Enzymic degradation of phytate (myo-inositol Hexaphosphate) in whole grain flour suspension and dough. A comparison between <sup>31</sup> P NMR spectroscopy and a ferric ion method. <b>1986</b> , 4, 325-334	45
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1938	Nicotinic receptor-mediated intracellular calcium release in cultured bovine adrenal chromaffin cells. <b>1986</b> , 63, 275-9	14
1937	Differential effects of spermine on aggregation, inositol phosphate formation and protein phosphorylation in human platelets in response to thrombin, arachidonic acid and lysophosphatidic acid. <b>1986</b> , 883, 247-52	12
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1935	Further characterization of [ <sup>3</sup> H]gamma-aminobutyric acid release from isolated neuronal growth cones: role of intracellular Ca <sup>2+</sup> stores. <b>1986</b> , 17, 1257-66	23
1934	The role of oxygen deficiency and cytosolic reactions in cell growth. <b>1986</b> , 21, 185-92	1
1933	Astrocyte glutamate receptor activation promotes inositol phospholipid turnover and calcium flux. <b>1986</b> , 72, 335-40	175
1932	Calcium-dependent actions of gonadotropin-releasing hormone agonist and luteinizing hormone upon cyclic AMP and progesterone production in rat ovarian granulosa cells. <b>1986</b> , 47, 91-8	19
1931	Effects of bombesin and insulin on inositol (1,4,5)trisphosphate and inositol (1,3,4)trisphosphate formation in Swiss 3T3 cells. <b>1986</b> , 47, 703-9	189
1930	Arachidonic acid inhibition of insulin action and phosphoinositide turnover in fat cells. <b>1986</b> , 45, 105-11	7
1929	Phosphatidylinositol turnover in neuroblastoma cells: regulation by bradykinin, acetylcholine, but not mu- and delta-opioid receptors. <b>1986</b> , 71, 219-23	43
1928	Inositol tetrakisphosphate: recent developments in phosphoinositide metabolism and receptor function. <b>1986</b> , 7, 83-85	15
1927	The measurement and pharmacological characterization of neurotransmitter function in human autopsy and biopsy samples: the state of the art. <b>1986</b> , 7, 85-87	4
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1920	Stimulation of insulin release by the phorbol ester 12-O-tetradecanoylphorbol 13-acetate in the clonal cell line RINm5F despite a lowering of the free cytoplasmic Ca <sup>2+</sup> concentration. <b>1986</b> , 887, 236-41	30
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1917	Release of intracellular Ca <sup>2+</sup> and elevation of inositol trisphosphate by secretagogues in parietal and chief cells isolated from rabbit gastric mucosa. <b>1986</b> , 888, 116-25	159
1916	Regulation of hepatic glycogen phosphorylase and glycogen synthase by calcium and diacylglycerol. <b>1986</b> , 888, 126-34	19
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