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Inactivation of *Escherichia coli* pyruvate formate-lyase by hypophosphite: evidence for a rate-limiting phosphorus-hydrogen bond cleavage

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Biochemistry, 1988, 27, 2217-22.

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#	Paper	IF	Citations
31	Catalytic-site mapping of pyruvate formate lyase. Hypophosphite reaction on the acetyl-enzyme intermediate affords carbon-phosphorus bond synthesis (1-hydroxyethylphosphonate). <i>FEBS Journal</i> , 1988 , 178, 445-50		38
30	Pulse radiolytic measurement of redox potentials: the tyrosine and tryptophan radicals. <i>Biochemistry</i> , 1989 , 28, 4847-53	3.2	176
29	A radical-chemical route to acetyl-CoA: the anaerobically induced pyruvate formate-lyase system of <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 1990 , 6, 383-98	2.9	106
28	Reaktionsselektivität von Enzymen durch negative Katalyse oder wie gehen Enzyme mit hochreaktiven Intermediaten um?. <i>Angewandte Chemie</i> , 1990 , 102, 373-379	3.6	57
27	8 Enzymic Free Radical Mechanisms. <i>The Enzymes</i> , 1992 , 20, 317-403	2.3	1
26	Glycyl free radical in pyruvate formate-lyase: synthesis, structure characteristics, and involvement in catalysis. <i>Methods in Enzymology</i> , 1995 , 258, 343-62	1.7	32
25	Electron paramagnetic resonance evidence for a cysteine-based radical in pyruvate formate-lyase inactivated with mercaptopyruvate. <i>Biochemistry</i> , 1995 , 34, 5712-7	3.2	42
24	The irreversible inactivation of two copper-dependent monooxygenases by sulfite: peptidylglycine alpha-amidating enzyme and dopamine beta-monooxygenase. <i>FEBS Letters</i> , 1995 , 366, 165-9	3.8	15
23	Lessons from thiamin-watching. <i>Pure and Applied Chemistry</i> , 1997 , 69, 1957-1968	2.1	26
22	Biochemistry and pathology of radical-mediated protein oxidation. <i>Biochemical Journal</i> , 1997 , 324 (Pt 1), 1-18	3.8	1391
21	Catalytic Mechanism of Pyruvate Formate-Lyase (PFL). A Theoretical Study. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11449-11455	16.4	57
20	Dioxygen inactivation of pyruvate formate-lyase: EPR evidence for the formation of protein-based sulfinyl and peroxy radicals. <i>Biochemistry</i> , 1998 , 37, 558-63	3.2	66
19	Protein Radicals in Enzyme Catalysis. <i>Chemical Reviews</i> , 1998 , 98, 705-762	68.1	1278
18	Pyruvate formate lyase is structurally homologous to type I ribonucleotide reductase. <i>Structure</i> , 1999 , 7, 733-44	5.2	36
17	Pyruvate formate-lyase-activating enzyme: strictly anaerobic isolation yields active enzyme containing a [3Fe-4S](+) cluster. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 269, 451-6	3.4	89
16	Oxidative Degradation of Pyruvate Formate-Lyase. <i>Journal of the American Chemical Society</i> , 2000 , 122, 2035-2040	16.4	27
15	Radical mechanisms of enzymatic catalysis. <i>Annual Review of Biochemistry</i> , 2001 , 70, 121-48	29.1	197

14	Catalytic Reactions of Radical Enzymes. <i>Theoretical and Computational Chemistry</i> , 2001 , 9, 145-181		
13	Reactivity of intermediates in benzoylformate decarboxylase: avoiding the path to destruction. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14858-9	16.4	28
12	Quantum chemical studies of radical-containing enzymes. <i>Chemical Reviews</i> , 2003 , 103, 2421-56	68.1	249
11	Catalytic Mechanism of Pyruvate Formate Lyase Revisited. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15347-15354	3.4	9
10	Experimental and theoretical investigations of the loss of amino acid side chains in electron capture dissociation of model peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 1523-35	3.5	87
9	C-C bond formation and cleavage in radical enzymes, a theoretical perspective. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005 , 1707, 24-33	4.6	53
8	Accelerating unimolecular decarboxylation by preassociated acid catalysis in thiamin-derived intermediates: implicating Brønsted acids as carbanion traps in enzymes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15856-64	16.4	25
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5	Oxidative Stress and Protein Oxidation. 2012 , 1-214		2
4	p53 and cell cycle effects after DNA damage. <i>Methods in Molecular Biology</i> , 2013 , 962, 49-61	1.4	46
3	Insights into electron flux through manipulation of fermentation conditions and assessment of protein expression profiles in <i>Clostridium thermocellum</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 6497-510	5.7	16
2	Monovalent Cation Activation of the Radical SAM Enzyme Pyruvate Formate-Lyase Activating Enzyme. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11803-11813	16.4	18
1	Mechanistic Studies of Radical SAM Enzymes: Pyruvate Formate-Lyase Activating Enzyme and Lysine 2,3-Aminomutase Case Studies. <i>Methods in Enzymology</i> , 2018 , 606, 269-318	1.7	11