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Differential reactivity in the processing of [p-(halomethyl)benzoyl] formates by benzoylformate decarboxylase, a thiamin pyrophosphate dependent enzyme

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#	Paper	IF	Citations
30	.		
29	Synthesis and reactivity of 6-(fluoromethyl)indole and 6-(difluoromethyl)indole. <i>Tetrahedron Letters</i> , 1989 , 30, 6117-6120	2	6
28	6-(Difluoromethyl)tryptophan as a probe for substrate activation during the catalysis of tryptophanase. <i>Biochemistry</i> , 1991 , 30, 1852-7	3.2	13
27	The use of 6-(difluoromethyl)indole to study the activation of indole by tryptophan synthase. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 286, 473-80	4.1	6
26	General acid catalysis of the cleavage of 2-(1-hydroxybenzyl)thiamin by a preassociation mechanism. <i>Bioorganic Chemistry</i> , 1991 , 19, 351-368	5.1	6
25	Catalysis of acetoin formation by brewers yeast pyruvate decarboxylase isozymes. <i>Biochemistry</i> , 1993 , 32, 13472-82	3.2	19
24	Kinetics of C(2)-Proton Abstraction from 2-Benzylthiazolium Salts Leading to Enamines Relevant to Catalysis by Thiamin-Dependent Enzymes. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2356-2362	16.4	39
23	Thiamin-dependent enzymes as catalysts in chemoenzymatic syntheses. <i>BBA - Proteins and Proteomics</i> , 1998 , 1385, 229-43		72
22	Application of alpha-keto acid decarboxylases in biotransformations. <i>BBA - Proteins and Proteomics</i> , 1998 , 1385, 307-22		80
21	Synthetic potential of thiamin diphosphate-dependent enzymes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999 , 6, 145-159		86
20	Benzoylformate decarboxylase from <i>Pseudomonas putida</i> as stable catalyst for the synthesis of chiral 2-hydroxy ketones. <i>Chemistry - A European Journal</i> , 2000 , 6, 1483-95	4.8	140
19	Spectroscopic detection of transient thiamin diphosphate-bound intermediates on benzoylformate decarboxylase. <i>Biochemistry</i> , 2000 , 39, 13862-9	3.2	42
18	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
17	Structural and kinetic analysis of catalysis by a thiamin diphosphate-dependent enzyme, benzoylformate decarboxylase. <i>Biochemistry</i> , 2003 , 42, 1820-30	3.2	88
16	Exchanging the substrate specificities of pyruvate decarboxylase from <i>Zymomonas mobilis</i> and benzoylformate decarboxylase from <i>Pseudomonas putida</i> . <i>Protein Engineering, Design and Selection</i> , 2005 , 18, 345-57	1.9	76
15	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
14	Thiamine Pyrophosphate Dependent Enzyme Catalyzed Reactions: Stereoselective C=C Bond Formations in Water. <i>Clean - Soil, Air, Water</i> , 2007 , 35, 406-412	1.6	29

- 13 Purification and crystallization of benzoylformate decarboxylase. *Protein Science*, **1995**, 4, 955-9 6.3 15
- 12 Mechanistic kinetic model for symmetric carboligations using benzaldehyde lyase. *Biotechnology and Bioengineering*, **2008**, 101, 27-38 4.9 28
- 11 Thiamin diphosphate catalysis: enzymic and nonenzymic covalent intermediates. *Chemical Reviews*, **2008**, 108, 1797-833 68.1 207
- 10 References. **2010**, 807-843
- 9 C-C bond-forming lyases in organic synthesis. *Chemical Reviews*, **2011**, 111, 4346-403 68.1 168
- 8 Competing Protonation and Halide Elimination as a Probe of the Character of Thiamin-Derived Reactive Intermediates. *Biochemistry*, **2019**, 58, 3566-3571 3.2 1
- 7 Benzoylformate decarboxylase. **1990**, 27-30 1
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- 5 Recent Research Results in the Laboratory of Inorganic Chemistry of the University of Ioannina □ Greece. **2003**, 497-537 1
- 4 Benzoylformate Decarboxylase. *Oxidative Stress and Disease*, **2003**,
- 3 Benzoylformate Decarboxylase. *Oxidative Stress and Disease*, **2003**,
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- 1 Organic Synthesis with Lyases. **2022**, 139-220