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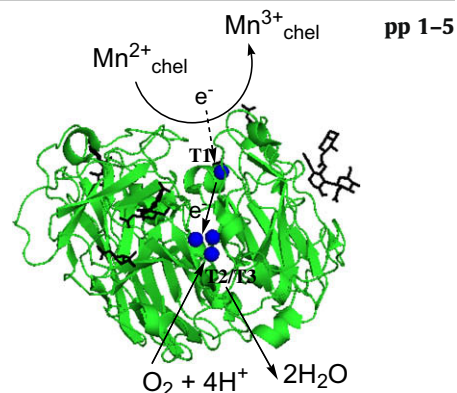
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Preliminary Communication

Enzymatic oxidation of manganese ions catalysed by laccase

Marina Gorbacheva, Olga Morozova, Galina Shumakovich, Alexander Streltsov, Sergey Shleev* and Alexander Yaropolov



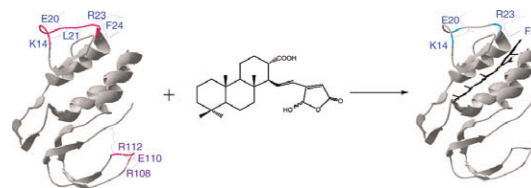
Regular Articles

Effects of petrosaspongiolide R on the surface topology of bee venom PLA₂: A limited proteolysis and mass spectrometry analysis

pp 6–10

Maria Chiara Monti, Raffaele Riccio and Agostino Casapullo*

Petrosaspongiolide R, a marine natural inhibitor of bee venom PLA₂, induces conformational changes on the N- and C-terminal regions of its target enzyme.



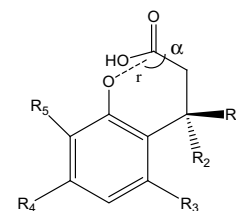
A new mathematical equation relating activation energy to bond angle and distance: A key for understanding the role of acceleration in lactonization of the trimethyl lock system

pp 11–25

Rafik Karaman*

Angle of attack α (nucleophilic-oxygen/carbonyl-carbon/ $\alpha\lambda\pi\eta\alpha$ -carbon) in the lactonization process of hydroxy acids.

$$\text{Activation Energy} = k(a/r) + C$$

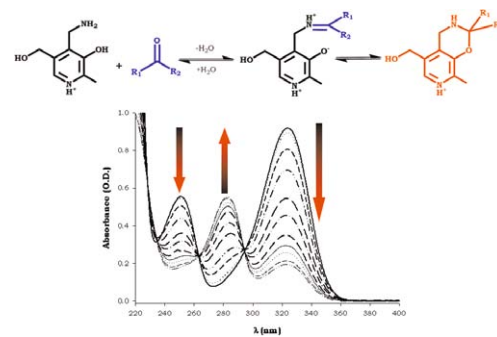


Lactonization of Hydroxy Acids

Unexpected isomeric equilibrium in pyridoxamine Schiff bases

Miquel Adrover, Bartolomé Vilanova,* Francisco Muñoz and Josefa Donoso

pp 26–32

**Probing the active site of rat porphobilinogen synthase using newly developed inhibitors**

Nan Li, Xiusheng Chu, Xiaojun Liu and Ding Li*

pp 33–40

