

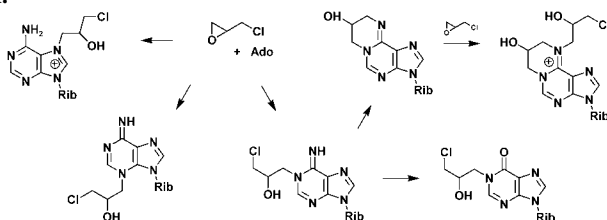
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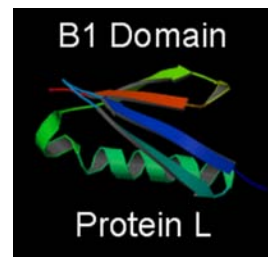
Pernilla Sund, Leif Kronberg*



**Total chemical synthesis of the B1 domain
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Xiaoye Yang, Michael C. Fitzgerald*

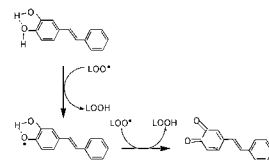


**Structure–activity relationship studies of resveratrol and its analogues
by the reaction kinetics of low density lipoprotein peroxidation**

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Jin-Chun Cheng, Jian-Guo Fang, Wei-Feng Chen, Bo Zhou,* Li Yang*, Zhong-Li Liu

The “French paradox,” a low incidence of cardiovascular disease despite a high fat intake, is believed to be associated with the high content of resveratrol, the antioxidative components in red wine. To find more active antioxidants with resveratrol as the lead compound we synthesized resveratrol analogues. Antioxidative effects of resveratrol and its analogues against free-radical-induced peroxidation of human low density lipoprotein (LDL) were studied. The compounds bearing *ortho*-dihydroxyl or 4-hydroxy-3-methoxyl functionality exhibit remarkably higher antioxidative activity than the ones bearing no such functionalities.



Hydrogen transfer pathways of the asymmetric reduction of α,β -unsaturated ketone mediated by baker's yeast**pp 158–166**Yuan Chu, Ben Li Zhang,*
Virginie Silvestre, Jin Pei Cheng*