

紫外光诱导氧合型肌红蛋白氧化反应及机理

曹洪玉^{1,3} 高凌星² 唐 乾^{1,3} 苏晋红² 郑学仿^{1,2,3,*}

(¹大连大学生命科学与技术学院, 辽宁 大连 116622; ²大连大学环境与化学工程学院, 辽宁 大连 116622;

³大连大学, 辽宁省生物有机化学重点实验室, 辽宁 大连 116622)

Mechanism of Oxymyoglobin Oxidation Reaction Induced by Ultraviolet Light

CAO Hong-Yu^{1,3} GAO Ling-Xing² TANG Qian^{1,3} SU Jin-Hong²

ZHENG Xue-Fang^{1,2,3,*}

(¹College of Life Science and Biotechnology, Dalian University, Dalian 116622, Liaoning Province, P. R. China;

²College of Environmental and Chemical Engineering, Dalian University, Dalian 116622, Liaoning Province, P. R.

China; ³Liaoning Key Laboratory of Bio-Organic Chemistry, Dalian University, Dalian 116622, Liaoning Province, P. R. China)

*Corresponding author. Email: dlxfzheng@126.com; Tel: +86-411-87402343.

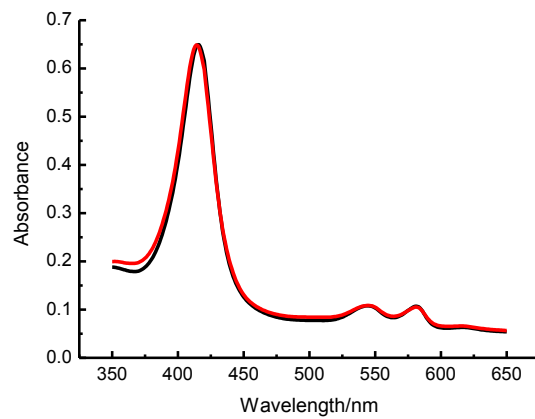


图 S1 避光 90 min 后 MbO₂ 的自氧化反应紫外可见光谱图
 Fig.S1 The UV-Vis absorbance spectra of MbO₂ without irradiation after 90 min

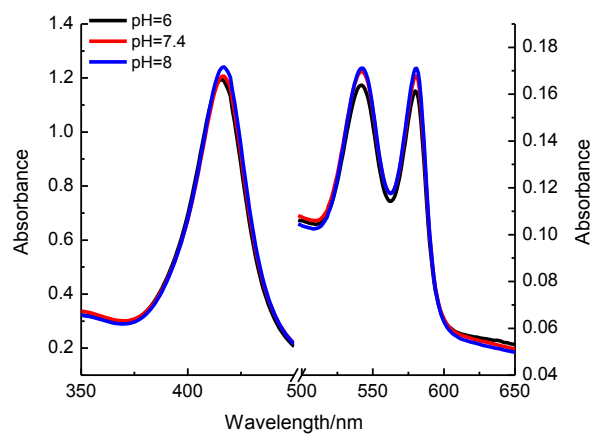


图 S2 避光 90 min 后不同 pH 对 MbO₂ 紫外可见光谱的影响
 Fig.S2 Effects of different pH values on UV-Vis absorbance spectra of MbO₂ without irradiation after 90 min

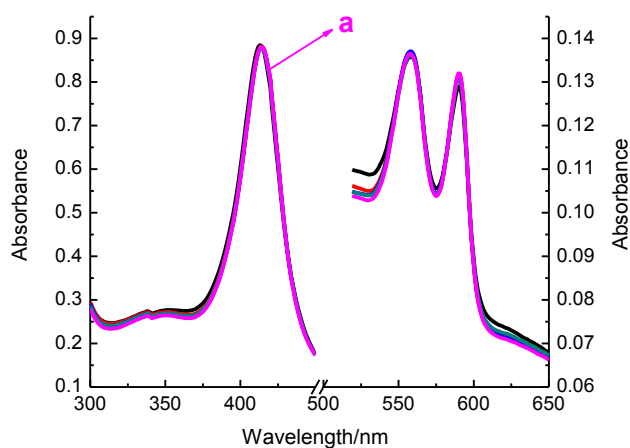


图 S3 加入四种氨基酸避光 60 min 后的 MbO₂ 紫外吸收谱
 Fig.S3 The UV-Vis absorption spectra of MbO₂ added different amino acids without irradiation after 60 min

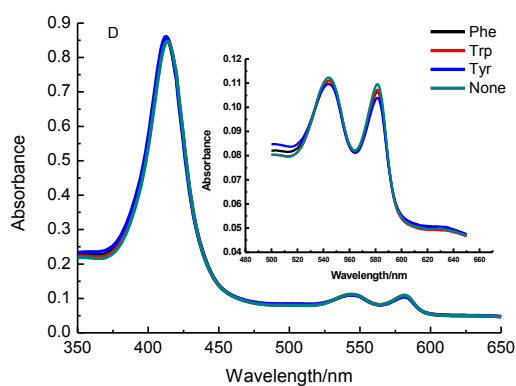
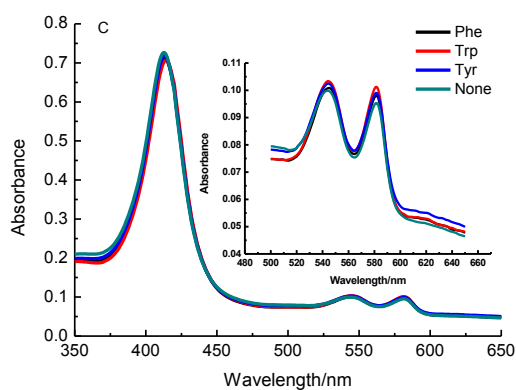


图 S4 加入不同氨基酸光照射 MbO₂ 后的紫外可见吸收光谱
 Fig.S4 UV-Vis absorption spectra of MbO₂ with different amino acids after irradiation
 C: 409 nm irradiation of xenon lamp; D: 430 nm irradiation of xenon lamp