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REGIOSELECTIVE AEROBIC AND ANAEROBIC AROMATIC HYDROXYLATIONS WITH MOLYBDENUM HYDROXYLASES IN PSEUDOMONAS



Shaker Verlag Apr 2012, 2012. Buch. Book Condition: Neu. 21x14.8x cm. Neuware - Among many other interesting reactions, molybdenum (Mo) hydroxylases catalyze regioselective hydrocarbon oxyfunctionalizations, for which typically oxygenases are employed in synthetic applications. However, oxygenase-based processes are often limited by oxygen mass transfer, cofactor regeneration, and/or enzyme instability due to the formation of reactive oxygen species. As Mo-hydroxylases produce, rather than consume reducing equivalents during substrate hydroxylation and use water, rather than molecular oxygen as oxygen donor, these enzymes...

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