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Enantioselective Resolution for the Preparation of Chiral *para*-Nitrostyrene Oxide by Microbial Epoxide Hydrolase in an Organic Solvent

Hee Sook Kim, Eun Yeol Lee*

Department of Food Science and Technology, College of Engineering, Kyungsung University, Busan 608-736, Korea

Enantioselective resolution of racemic *para*-nitrostyrene oxide was investigated using epoxide hydrolase activity of *Aspergillus niger* LK for the production of optically pure (*S*)-*para*-nitrostyrene oxide. To overcome the poor solubility of the substrate, enantioselective hydrolysis in an organic solvent was attempted under optimized reaction conditions including reaction temperature and water content. (*S*)-*para*-Nitrostyrene oxide with high optical purity (>99% ee) was obtained at 37% yield using fungal epoxide hydrolase-catalyzed enantioselective resolution.