

## High regioselectivity in electrochemical $\alpha$ -methoxylation of *N*-protected cyclic amines

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### Abstract

*N*-Protecting groups of  $\alpha$ -substituted cyclic amines strongly affected the regioselectivity in electrochemical methoxylation of these compounds. Namely, *N*-acyl derivatives were transformed into  $\alpha'$ -methoxylated compounds, while *N*-cyano derivatives changed into  $\alpha$ -methoxylated derivatives. Furthermore, Lewis acid catalyzed nucleophilic substitution of the  $\alpha$ -methoxylated compounds protected with cyano group afforded  $\alpha,\alpha$ -disubstituted cyclic amines.