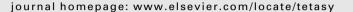


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$$H \longrightarrow MeO \longrightarrow N \longrightarrow CO_2Bn$$
Boc

 $[\alpha]_D$ = -19.2 (c 0.5, CHCl₃) (275A or *ent*-275A Lehmizidine Alkaloid) Straightforward synthesis of [(2S,4R)-1-cyclohexyl-4-methylpiperidin-2-yl]methanol and [(2S,4R)-1-cyclohexyl-4-methylpiperidin-2-yl](diphenyl)methanol: novel chiral ligands for the catalytic addition of diethylzinc to benzaldehyde to give rise to an extensive turn in the sense of asymmetric induction

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$$R^3$$
 R^4
 R^4
 R^3
 R^4
 R^6
 R^6
 R^6
 R^6

R = 4-(4-methoxyphenyl)piperazin-1-yl

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$$CO_2Me$$
 CO_2Me
 C

iv

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$$\begin{array}{c}
OH \\
\hline
(R)-C_3-TunePhos
\end{array}$$

OH

OH

OH

OH

OH

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