Supplementary Material

Synthesis of optically active vicinal fluorocyclopentanols and fluorocyclopentanamines by enzymatic deracemization

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Table of Contents

Copies of $^1$H, $^{19}$F and $^{13}$C NMR Spectra .................................................................S2
Copies of mass spectra ..............................................................................................................S10
Determination of optical purity by Mosher’s acid derivatization and HPLC ................................S14
$^1$H NMR spectrum (500MHz, CDCl$_3$) of (R,R)-2-fluorocyclopentan-1-ol 4
$^1$H NMR spectrum (500MHz, CDCl$_3$) of (S,S)-2-fluorocyclopentan-1-ol 3
$^1$H NMR spectrum (500 MHz, DMSO-d6) of (1S,2R)-fluorocyclopentane-1-amine hydrochloride 14
$^1$H NMR spectrum (500 MHz, DMSO-d6) of (1R,2S)-fluorocyclopentane-1-amine hydrochloride 12
$^1{}^3$C NMR spectrum of $(R,S)$-2-fluorocyclopentan-1-ol 2
$^{13}$C NMR spectrum of (5,R)-2-fluorocyclopentan-1-ol 1
$^{19}$F NMR spectrum (CDCl$_3$) of (S,S)-2-fluorocyclopentan-1-ol 3
19F NMR spectrum of (R,S)-2-fluorocyclopentan-1-ol 2
Mass spectrum of (1R,2S)-2-fluorocyclopentan-1-ol 3
Mass-spectrum of (R,R)-2-Fluorocyclopentane-1-ol 4
Mass spectrum of (S,S)-2-fluorocyclopentan-1-ol 3
Mass-spectrum of (1S,2R)-2-fluorocyclopentane-1-amine hydrochloride

Mass-spectrum of (1R,2S)-2-fluorocyclopentane-1-amine hydrochloride 13
**Determination of optical purity of resolved stereoisomers**

![Chemical structure](image)

a) To 10 mg (4.7 mmol) of racemic 2,1-bromoindanol and 0.01 ml of triethylamine in 2 ml of diethyl ether was added 13 mg (5.17 mmol) of Mosher acid chloride in the solution of 1 ml of diethyl ether with stirring and cooling to −20 °C. After 10 min, the reaction mixture was centrifuged; the solvent was evaporated in vacuo, 1 ml of CDCl₃ was added to the residue, the solution was placed to NMR tube, ¹H and ¹⁹F NMR spectroscopic analyses were performed (See NMR spectra below);
b) The resolved 2-bromo-2,3-dihydro-1H-inden-1-ol stereoisomers were analyzed analogously (See NMR spectra below).
$^{19}$F Spectra of Mosher derivative of 2-fluorocyclopentan-1-ol: A) racemate; B) (1S,2R)-Stereoisomer 1
$^{19}$F Spectra of Mosher derivative of (rac)-2-fluorocyclopentan-1-ol
$^{19}$F Spectra of Mosher derivative of (R,S)-2-fluorocyclopentan-1-ol 2
$^{19}$F Spectra of Mosher derivative of (S,R)-2-fluorocyclopentan-1-ol
$^1$H NMR spectrum of Mosher derivative of racemic fluorocyclopentane-1-amine hydrochloride

$^1$H NMR spectrum of Mosher derivative of (1S,2R)- fluorocyclopentane-1-amine hydrochloride 14
1H NMR spectrum of Mosher derivative of (1R,2S)- fluorocyclopentane-1-amine hydrochloride 12
chiral HPLC analysis on Chiralcel AD-H column of (1S,2R) 2-fluorocyclopentan-1-ol 1
chiral HPLC analysis on Chiralcel AD-H column of (1R,2S) 2-fluorocyclopentan-1-ol 2