

Supplementary Material

Synthesis of new, optically active 1-(substituted aryl)pyrrole derivatives via atropisomerism directed diastereoselective metalation

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Table S1. Summary of crystallographic data, data collection, structure determination and refinement for crystal (*R_aS*)-(+)-**7a**

Empirical formula	C ₁₆ H ₁₇ NO ₄
Formula weight	287.31
Temperature	295(2)
Radiation and wavelength	Mo-K α , λ = 0.71075 Å
Crystal system	orthorhombic
Space group	<i>P</i> 2 ₁ 2 ₁ 2 ₁
Unit cell dimensions	<i>a</i> = 8.1717(6) Å
	<i>b</i> = 8.9080(7) Å
	<i>c</i> = 21.0551(18) Å
	α = 90.00°
	β = 90.00°
	γ = 90.00°
Volume	1532.7(2) Å ³
<i>Z</i> , <i>Z'</i>	4, 1
Density (calculated)	1.245 Mg/m ³
Absorption coefficient, μ	0.090 mm ⁻¹
<i>F</i> (000)	608
Crystal colour	colourless
Crystal description	prism
Crystal size	0.45 x 0.45 x 0.30 mm
Absorption correction	numerical
Max. and min. transmission	0.98 and 0.96
θ -range for data collection	3.00 ≤ θ ≤ 22.21°
Index ranges	-8 ≤ <i>h</i> ≤ 8; -9 ≤ <i>k</i> ≤ 9; -22 ≤ <i>l</i> ≤ 22
Reflections collected	21813
Completeness to 2 θ	0.997
Independent reflections	1935 [<i>R</i> (int) = 0.0423]
Reflections <i>I</i> > 2 σ (<i>I</i>)	1609
Refinement method	full-matrix least-squares on <i>F</i> ²
Data / restraints / parameters	1935 / 0 / 192
Final <i>R</i> indices [<i>I</i> > 2 σ (<i>I</i>)]	<i>R</i> ₁ = 0.0415, <i>wR</i> ² = 0.1017
<i>R</i> indices (all data)	<i>R</i> ₁ = 0.0511, <i>wR</i> ² = 0.1058
Max. and mean shift/esd	0.000; 0.000
Largest diff. peak and hole	0.10 and -0.10 e.Å ⁻³

Crystallographic data (including structure factors) for the structure in this paper have been deposited with the Cambridge Crystallographic Data Centre as supplementary publication nos. CCDC 1032325. E-mail: deposit@ccdc.cam.ac.uk.