

Unexpected diastereotopic behaviour in the ^1H NMR spectrum of 1,4-dihydropyridine derivatives triggered by chiral and prochiral centres

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1,4-dihydropyridine derivatives constitute an important pharmacological group for the treatment of cardiovascular diseases. We have synthesised a series 4-(5?-nitro-2?-furyl)-1,4-dihydropyridine derivatives, which were characterised by ^1H -NMR. We have found that carboethoxy groups at the C-3 and C-5 on the 1,4-dihydropyridine ring show a much more complex signal in the ^1H NMR spectra, either when C-4 is a pseudo-prochiral or a chiral centre. ©2005 Sociedade Brasileira de Química.