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NOTE

LABELLED COMPOUNDS OF INTEREST AS ANTITUMOUR AGENTS - V. SYNTHESES OF [^{18}O]-5-METHYLISOQUINOLINONE AND 1-(FURAN-2-YL-[^{18}O]-METHOXY)-5-METHYLISOQUINOLINE: CORRECTION

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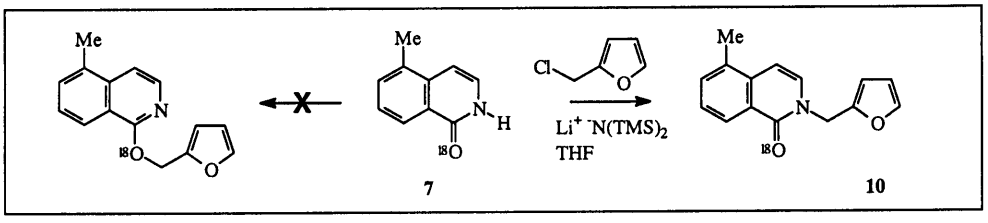
In a recent paper[1] from our laboratory, we reported that the reaction of the lithium anion of 5-methylisoquinolin-[^{18}O]-one with 2-(chloromethyl)furan gave 1-(furan-2-yl-[^{18}O]-methoxy)-5-methylisoquinoline, the product of alkylation at oxygen, in 60% chemical yield. The few literature precedents[2-4] for alkylation of anions derived from isoquinolin-1-ones show that the major or sole products are the corresponding 2-alkylisoquinolin-1-ones derived from alkylation at nitrogen, irrespective of the nature of the electrophile. Re-examination of the spectroscopic data leads us to the conclusion that the product is 2-(furan-2-ylmethyl)-5-methylisoquinolin-[^{18}O]-one, arising from furanylmethylation at nitrogen. In particular, the chemical shift of the CH_2 in the ^{13}C NMR spectrum (δ_C 44.33) is consistent with typical values for ArCH_2N but not ArCH_2O.



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