RSC Advances:

An efficient one-pot three-component reaction for the synthesis of novel functionalized pyrano[3,2-c]coumarins catalysed by Na$_2$CO$_3$ in aqueous medium

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General Considerations:
$^1$H NMR and $^{13}$C NMR Spectra were recorded on Bruker Avance-DPX 300MHz and 75MHz FT NMR in CDCl$_3$ using TMS as an internal standard. Chemical shifts were reported in ppm ($\delta$ units). [Solvent peak (DMSO-d$_6$) at around $\delta$ 3.36 and $\delta$ 2.50 peaks are not considered in all the spectra.]
X-ray crystal structure (ORTEP) of compound 4a (CCDC 926605)