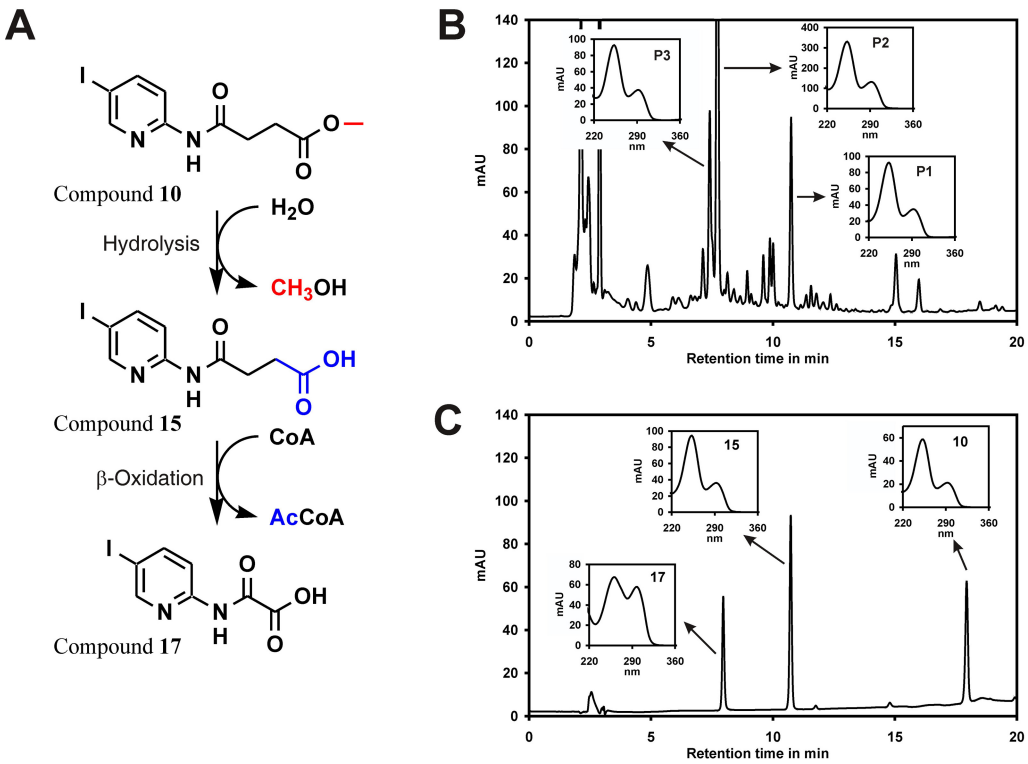


**Additional file 5**: Products P2 or P3 are not derived by β-oxidation. (A) Proposed pathway for degradation of compound **10** by β-oxidation. Compound **10** is first hydrolysed to compound **15**, which undergoes shortening of the aliphatic side chain by β-oxidation to finally yield compound **17**. However, this pathway is not supported by experimental data: (B) Chromatogram of a cell extract derived from Col-0 seedlings treated with 50 µM compound **15**. The UV spectra of the obtained products are shown in the inserts. (C) Chromatogram of a mixture of synthesised compounds **10**, **15** and **17**, the latter representing the putative β-oxidation end product. As indicated by the retention times and the UV spectra P1 is identical to compound **15** while P2 and P3 are distinct from compound **17**.