Supporting Information

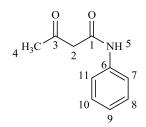
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Synthesis of novel impurities in 2-(2-(4-fluorophenyl)-2-oxo-1phenylethyl)-4-methyl-3-oxo-N-phenylpentanamide; an atorvastatin intermediate

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3-oxo-N-phenylbutanamide



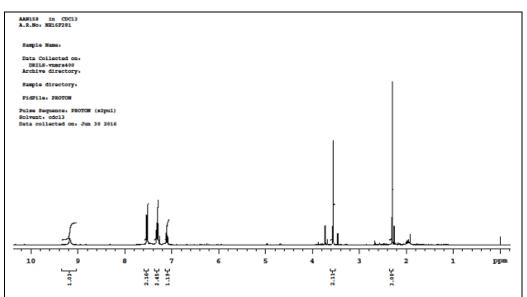


Figure S1. ¹H NMR spectrum of compound 22

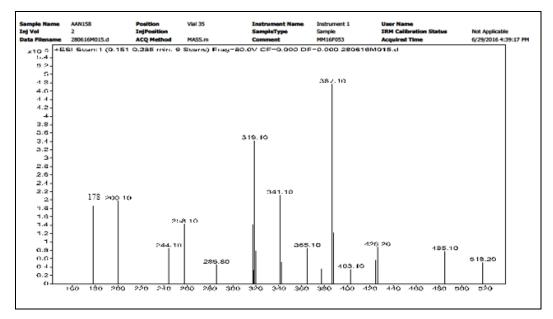
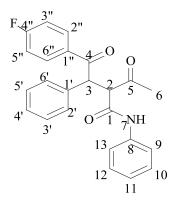


Figure S2. ESI-MS spectrum of compound 22



2-acetyl-4-(4"-fluorophenyl)-4-oxo-N,3-diphenylbutanamide

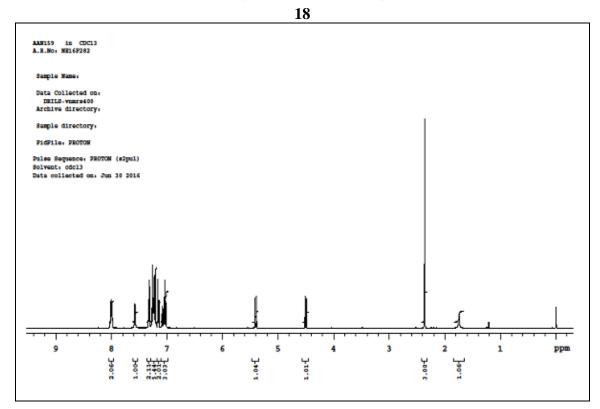


Figure S3. ¹H NMR spectrum of compound 18

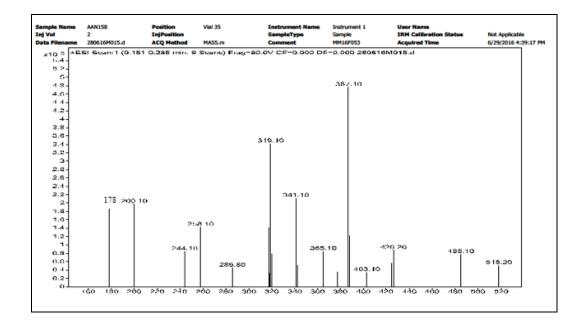


Figure S4. ESI-MS spectrum of compound 18

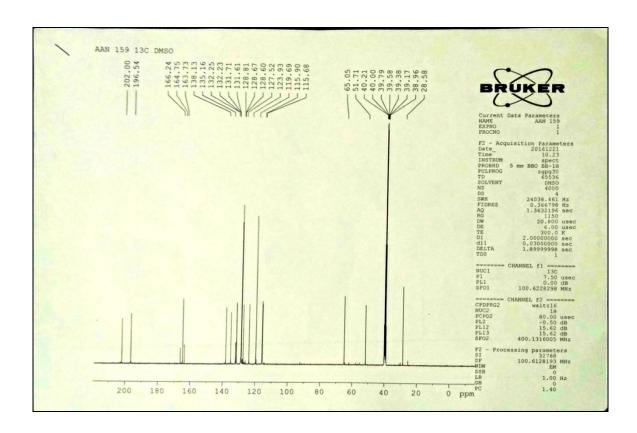


Figure S5. ¹³C NMR spectrum of compound 18

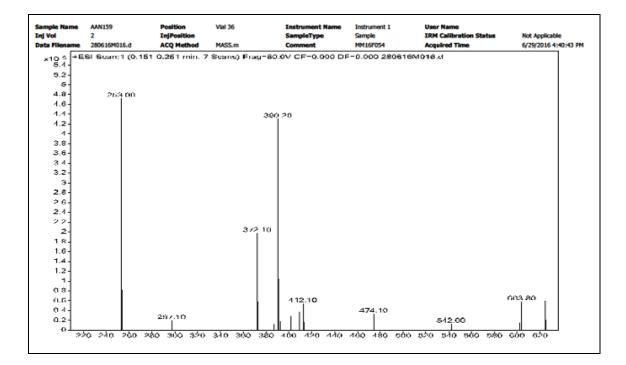


Figure S6. ESI-MS spectrum of compound 18

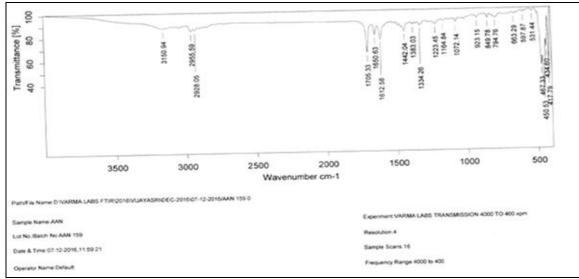
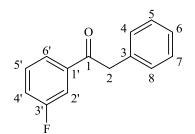


Figure S7. IR spectrum of compound 18



1-(3'-fluorophenyl)-2-phenylethanone **28**

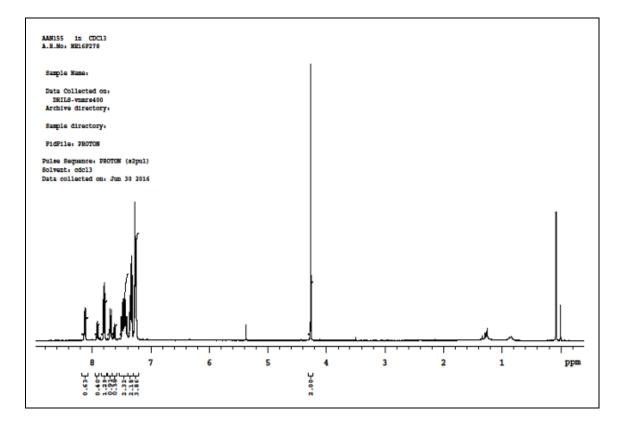


Figure S8. ¹H NMR spectrum of compound 28

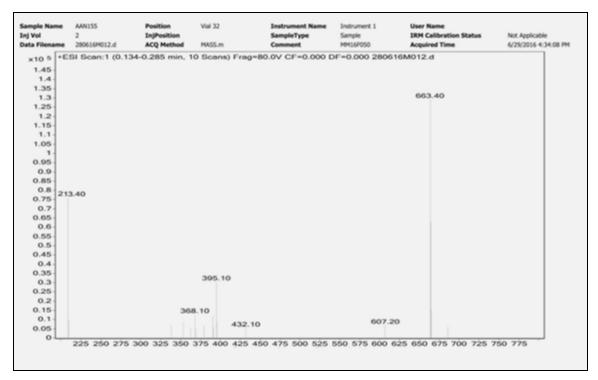
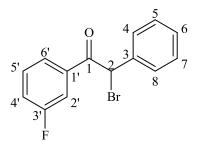
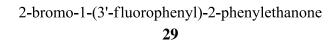


Figure S9. ESI_MS spectrum of compound 28





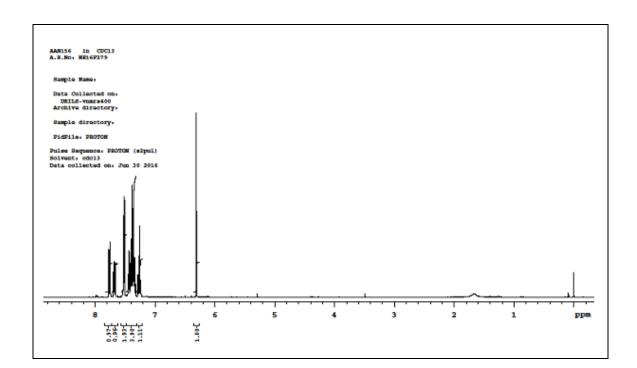


Figure S10. ¹H NMR spectrum of compound 29

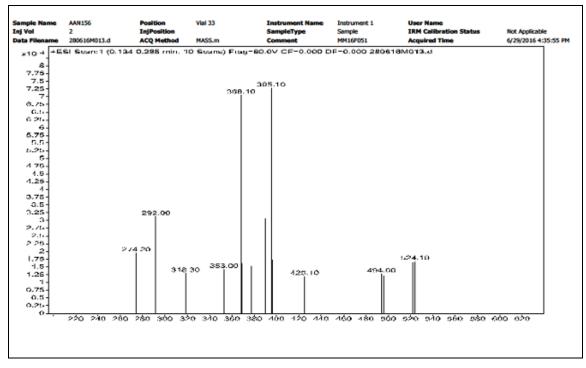
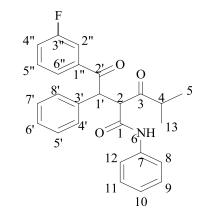


Figure S11. ESI_MS spectrum of compound 29



2-(2'-(3"-fluorophenyl)-2'-oxo-1'-phenylethyl)-4-methyl-3-oxo-*N*-phenylpentanamide

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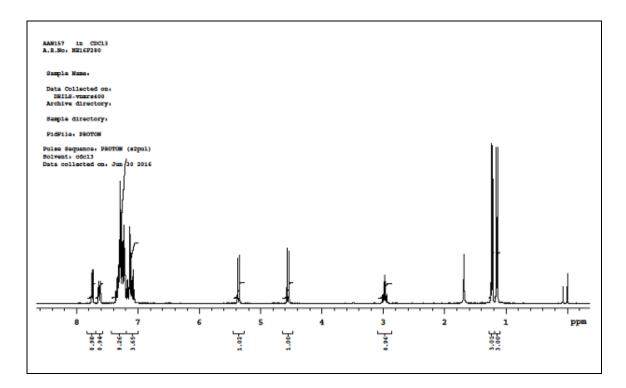


Figure S12. ¹H NMR spectrum of compound 19

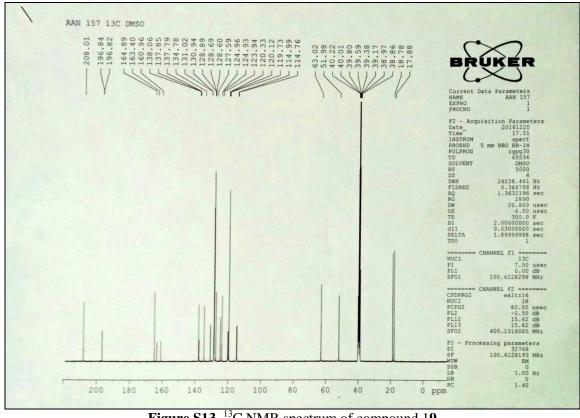


Figure S13. ¹³C NMR spectrum of compound 19

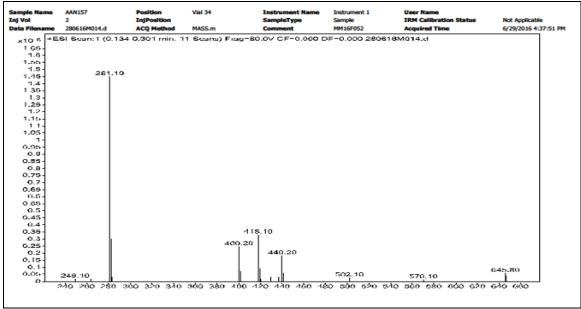


Figure S14. ESI_MS spectrum of compound 19

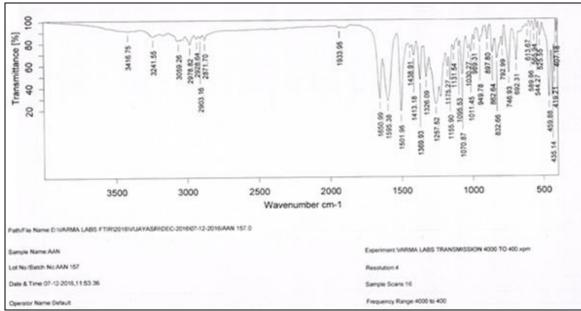


Figure S15. IR S spectrum of compound 19