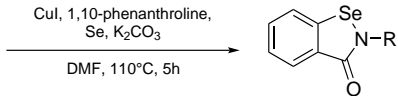


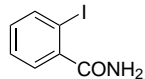
2 and **2a**



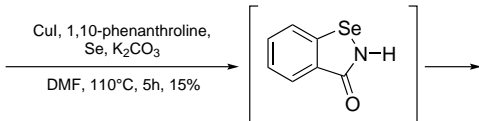
1 and **1a**

1 R = Ph, 69%

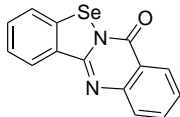
1a R = Bn, 53%



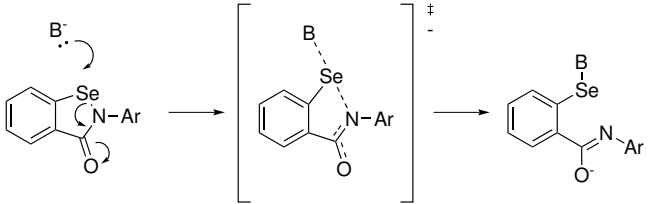
2b

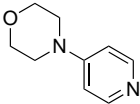


1b

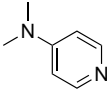


3

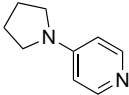




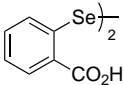
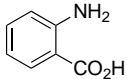
4a



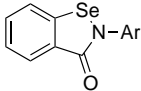
DMAP



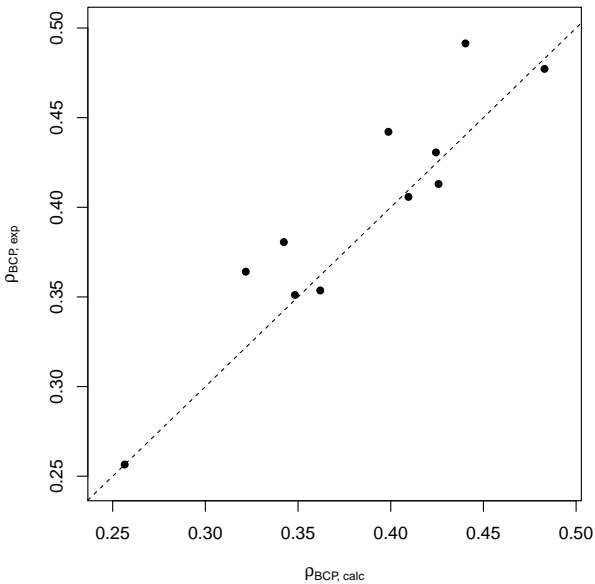
4b

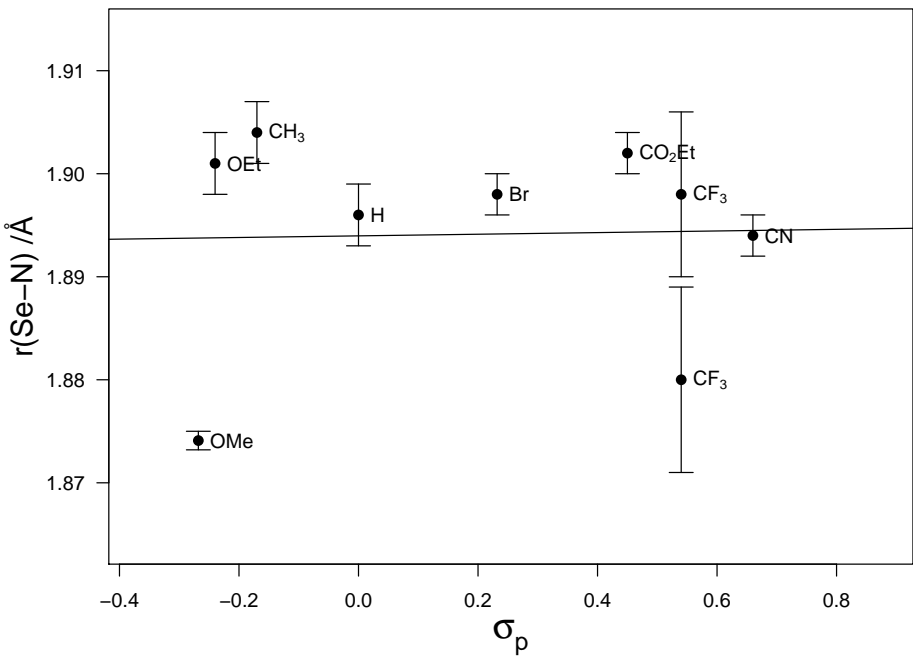


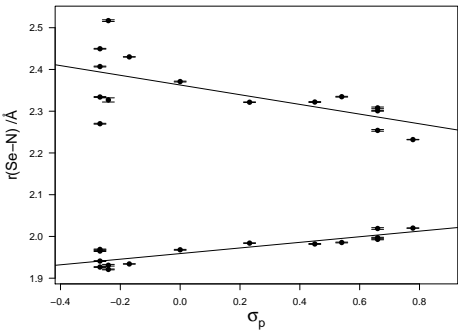
5

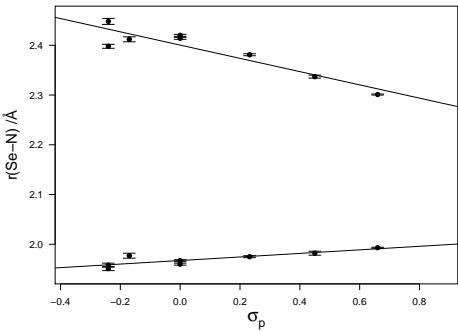


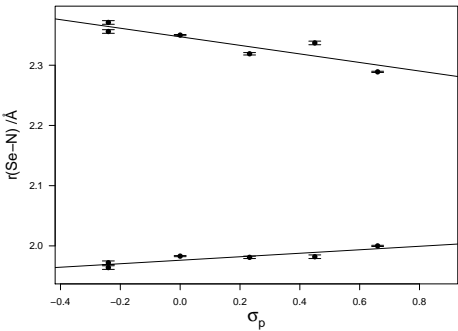
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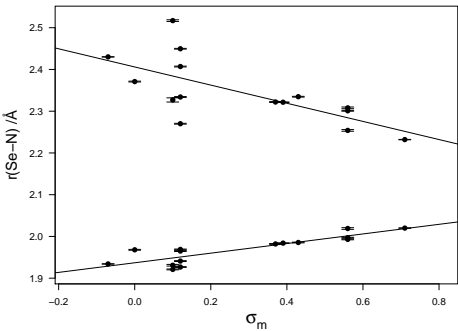


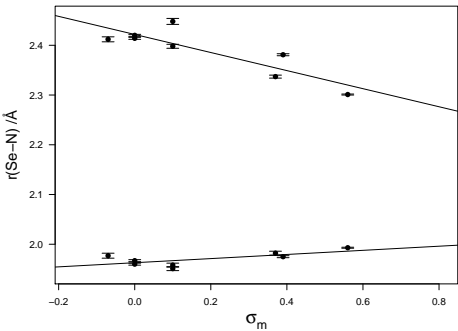


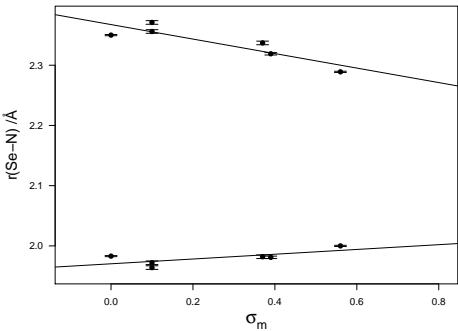


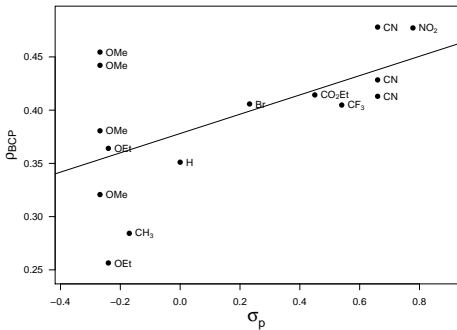


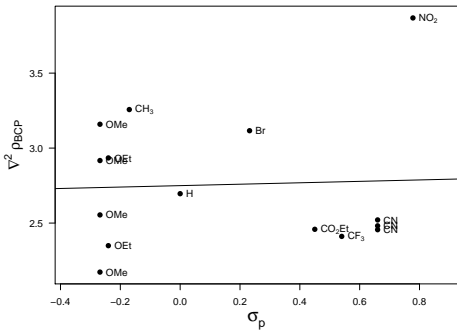


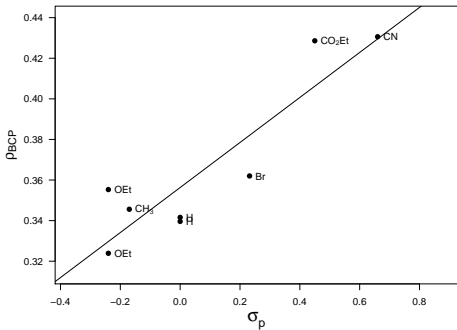


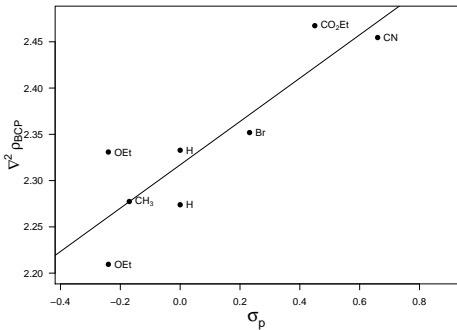


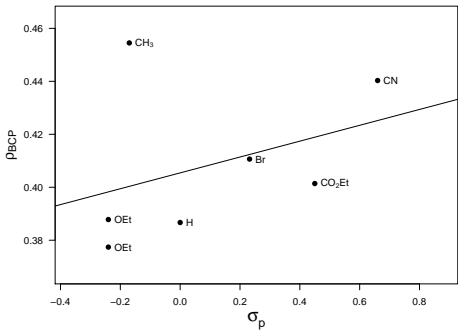


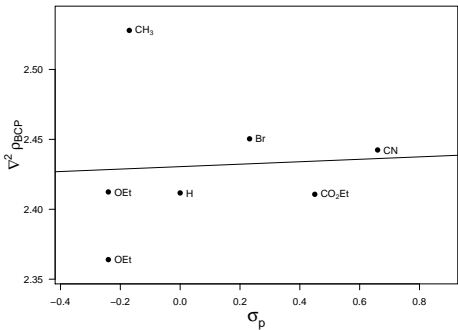


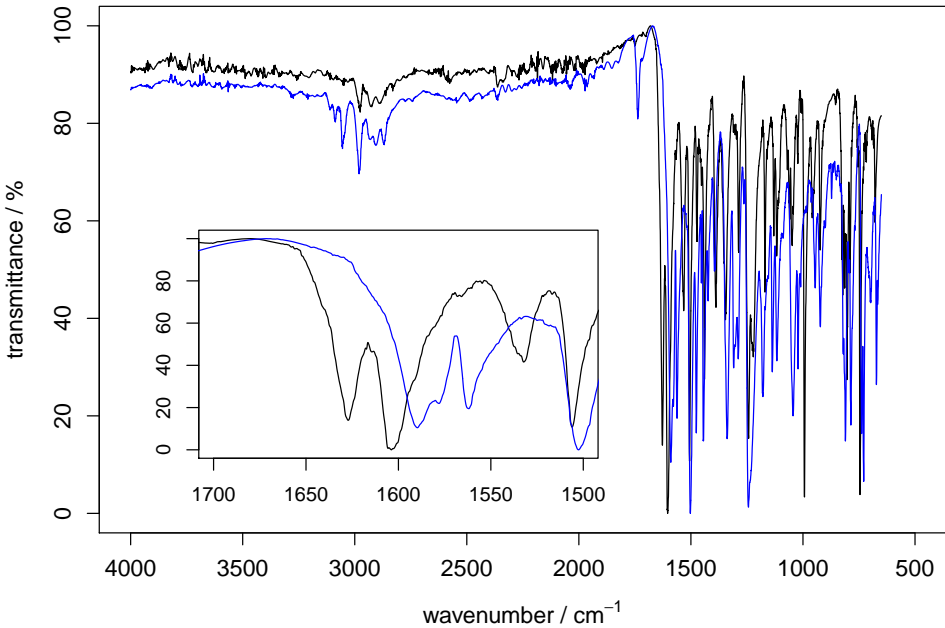


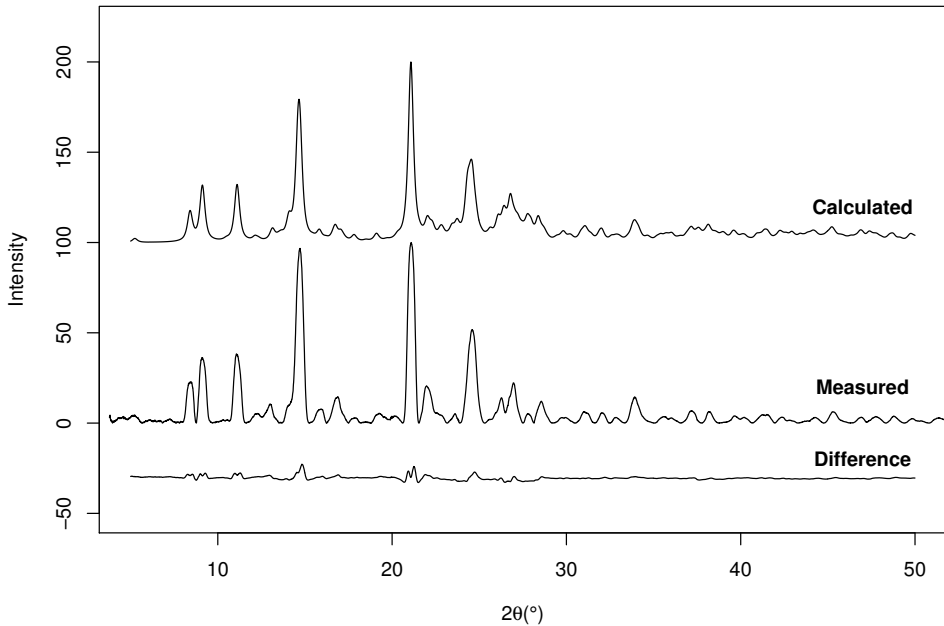


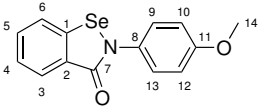
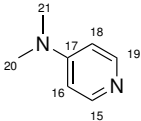


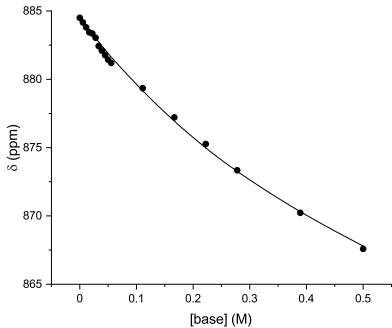


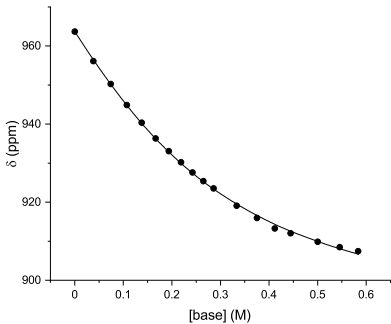


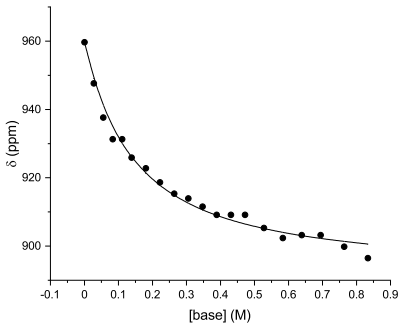


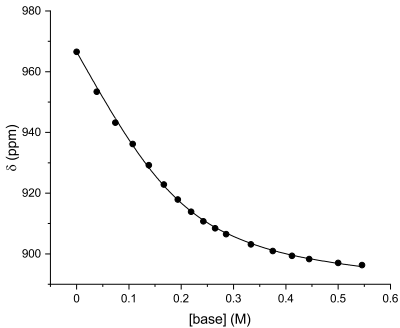


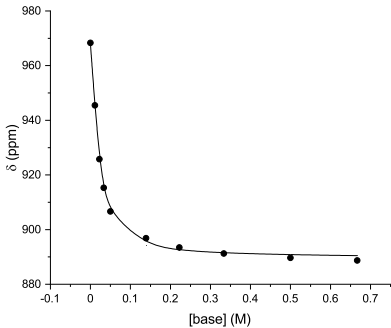


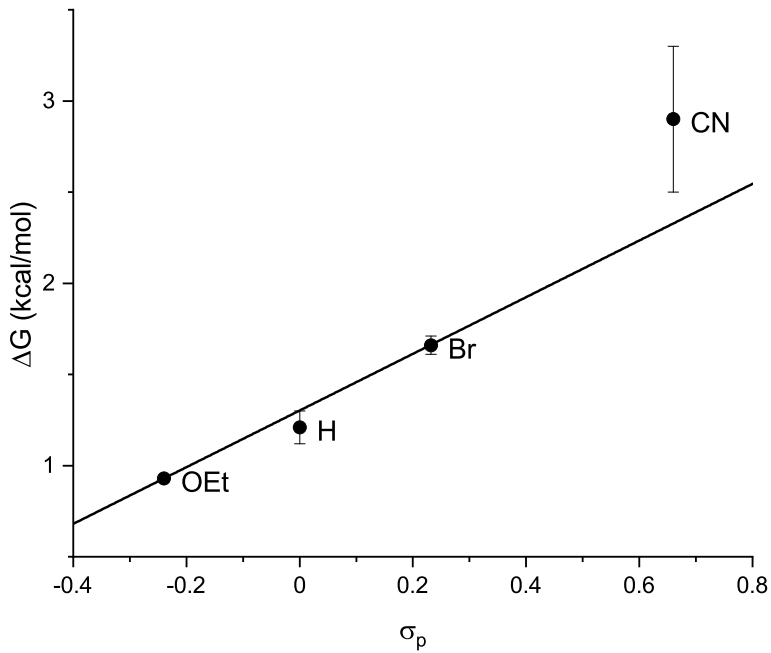


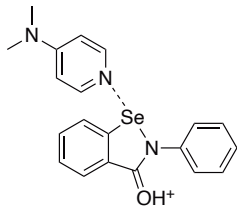






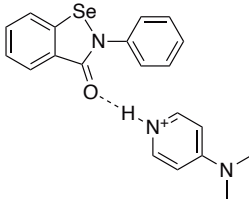




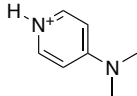


m/z: 398.08

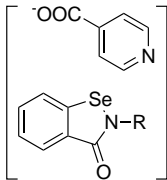
or



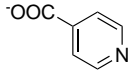
m/z: 398.08



m/z: 123.09



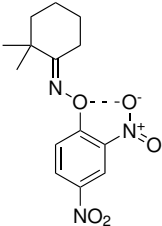
m/z : 397.01



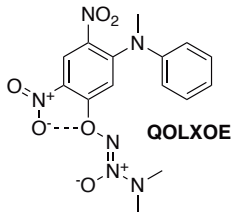
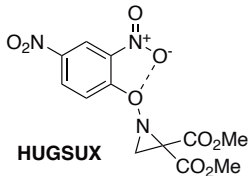
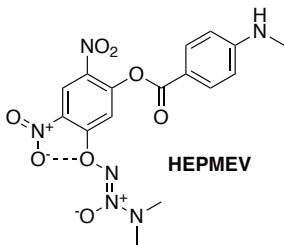
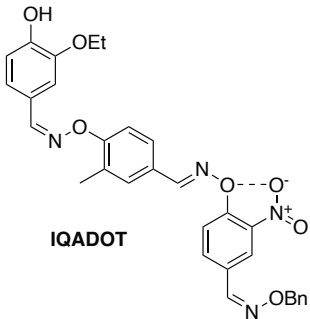
m/z : 122.02

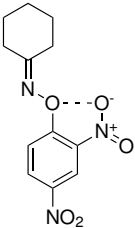
1 R = Ph

1a R = Bn

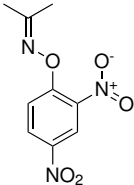


7

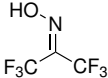
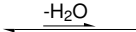
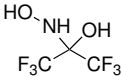


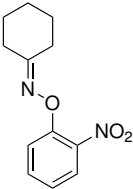


8

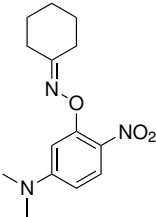


9

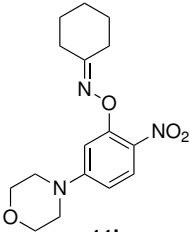




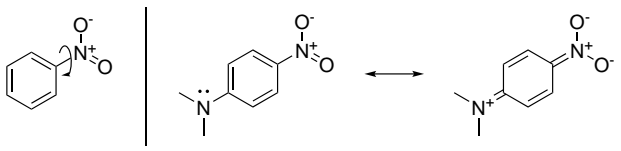
10

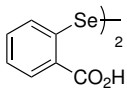


11a

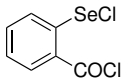


11b

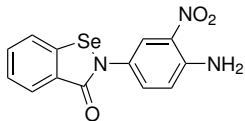




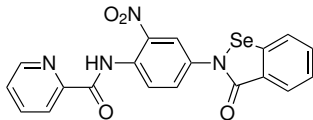
5



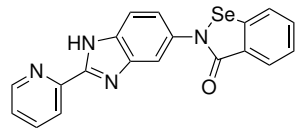
6



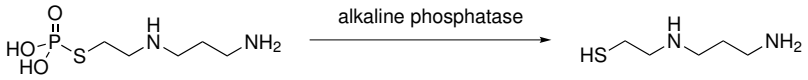
15

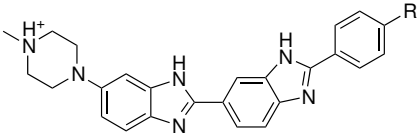


14



13

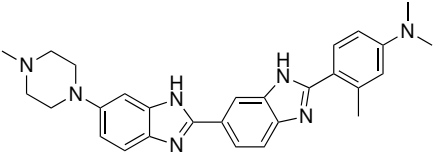


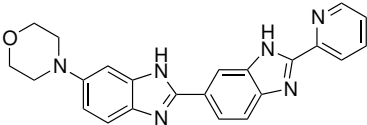


Hoechst 33258 R: OH

Hoechst 33342 R: OCH₂CH₃

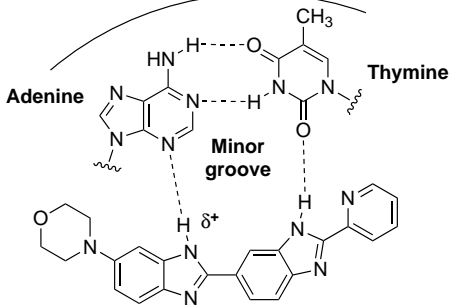
Hoechst 34580 R: N(CH₃)₂



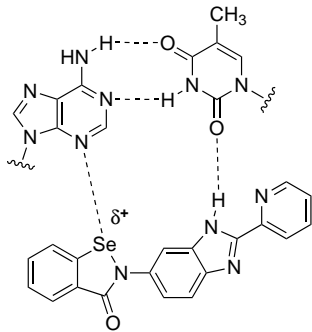


12

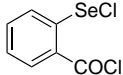
Major groove



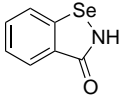
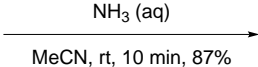
12



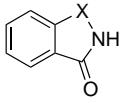
13



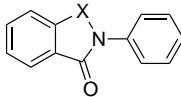
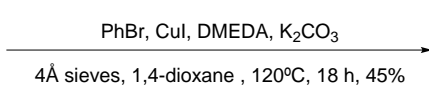
6



1b

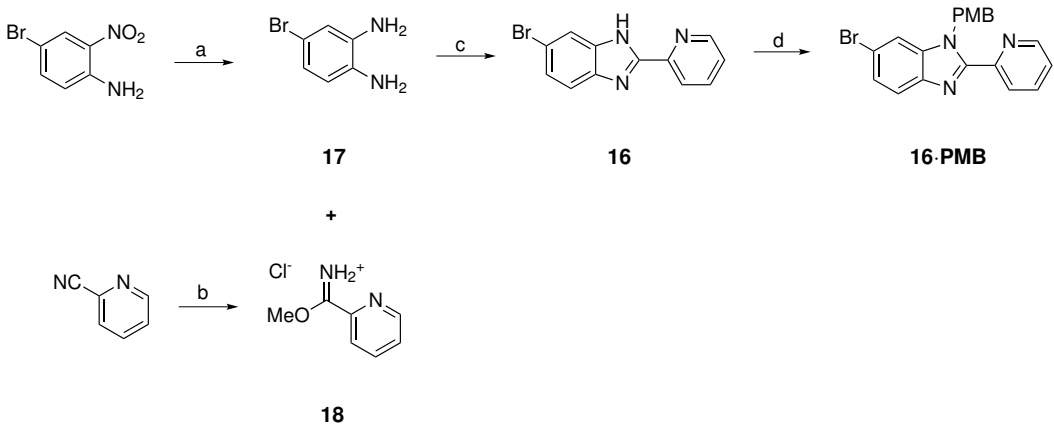


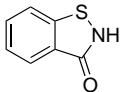
1b and 1b.S



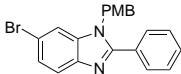
1 and 1.S

X = S, Se





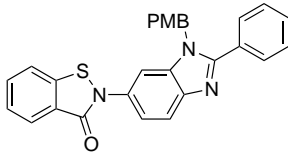
1b·S



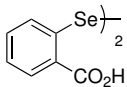
19·PMB

CuI, DMEDA, K₂CO₃

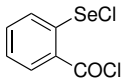
4 Å sieves, 1,4-dioxane, 120°C, 24 h, 48%



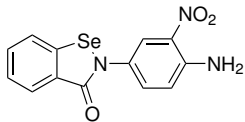
20·S·PMB



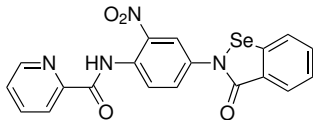
5



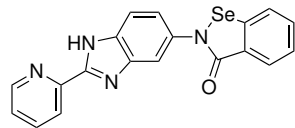
6



15



14



13



