

Supplementary Materials

Synthesis and fluorescent properties of novel isoquinoline derivatives

**Łukasz Balewski ^{1,*} (L.B.), Franciszek Sączewski ¹ (F.S., †), Maria Gdaniec ² (M.G.),
Anita Kornicka ¹ (A.K.), Karolina Cicha ¹ (K.C.), Aleksandra Jalińska ¹ (A.J.)**

¹ Department of Chemical Technology of Drugs, Faculty of Pharmacy, Medical University of Gdańsk, 80-416 Gdańsk, Poland;

E-Mails: lukasz.balewski@gumed.edu.pl (L.B.); anita.kornicka@gumed.edu.pl (A.K.);
cicha.karolina89@gmail.com (K.C.); aleksandra.jalinska@gumed.edu.pl (A.J.)

² Faculty of Chemistry, A. Mickiewicz University, 61-614 Poznań, Poland;

E-Mail: magdan@amu.edu.pl (M.G.)

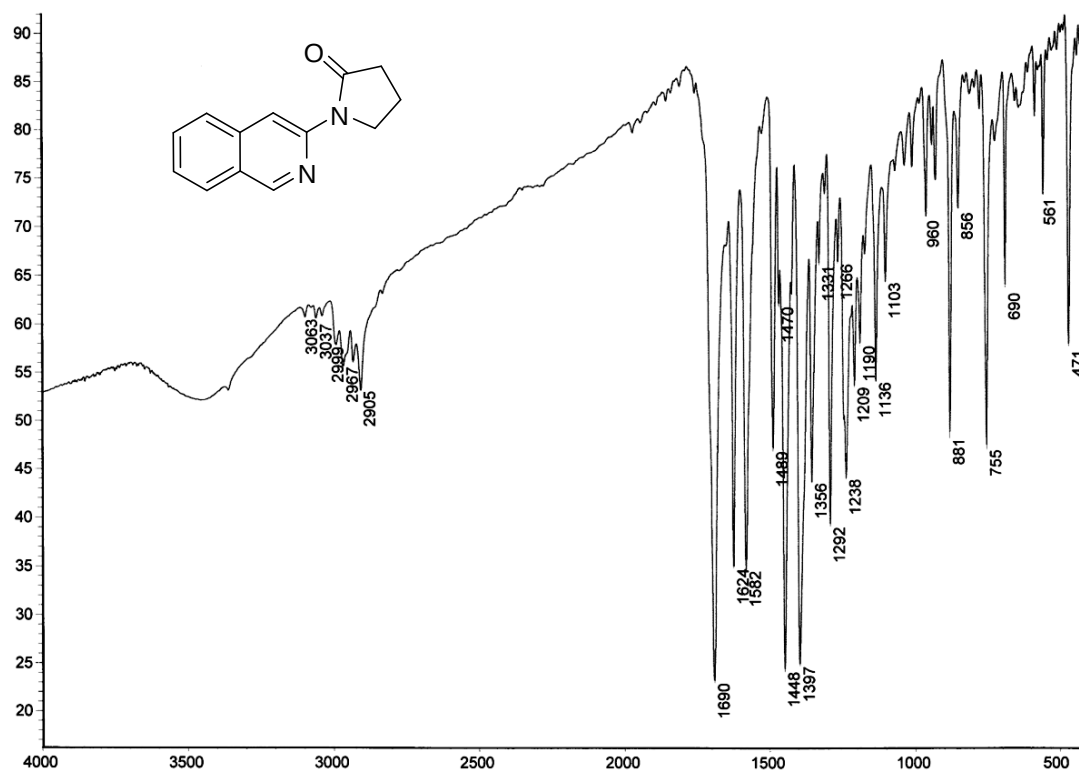
* Author to whom correspondence should be addressed;

E-Mail: lukasz.balewski@gumed.edu.pl; Tel.: +48-58-349-1952; Fax: +48-58-349-1654.

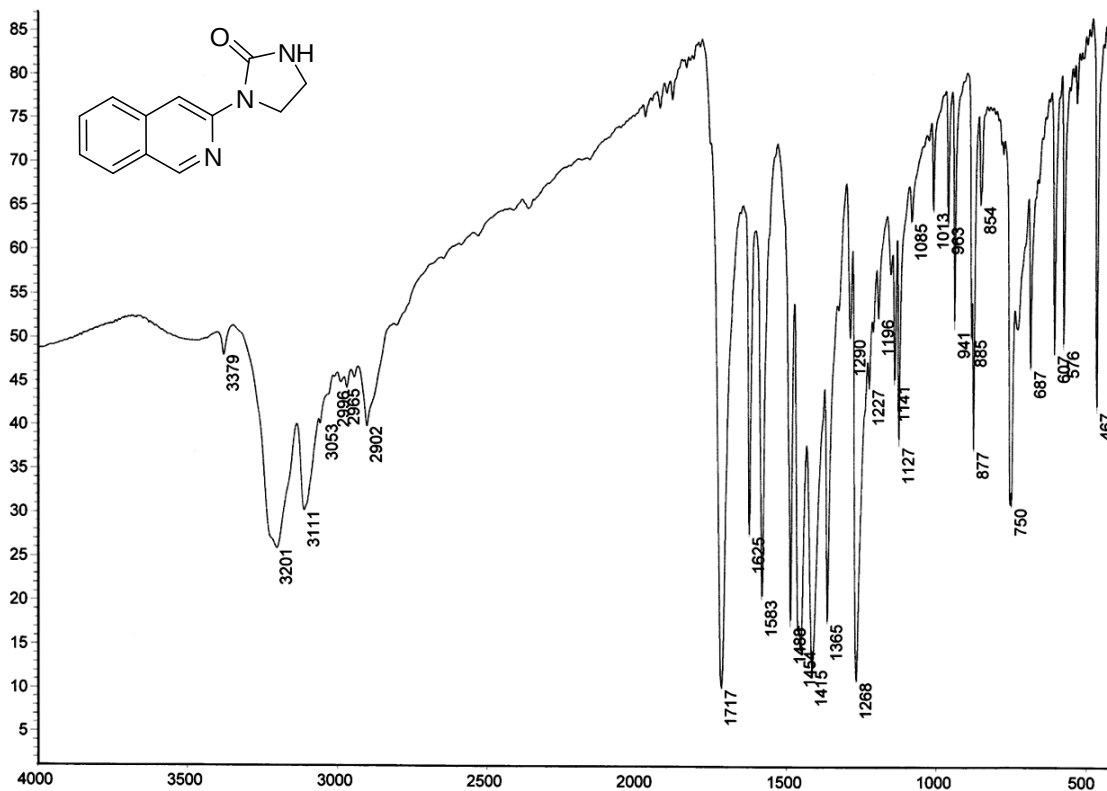
† Deceased 18 October 2018

Copies of IR, NMR spectra of compounds **3b**, **3e**, **4a** and **8**

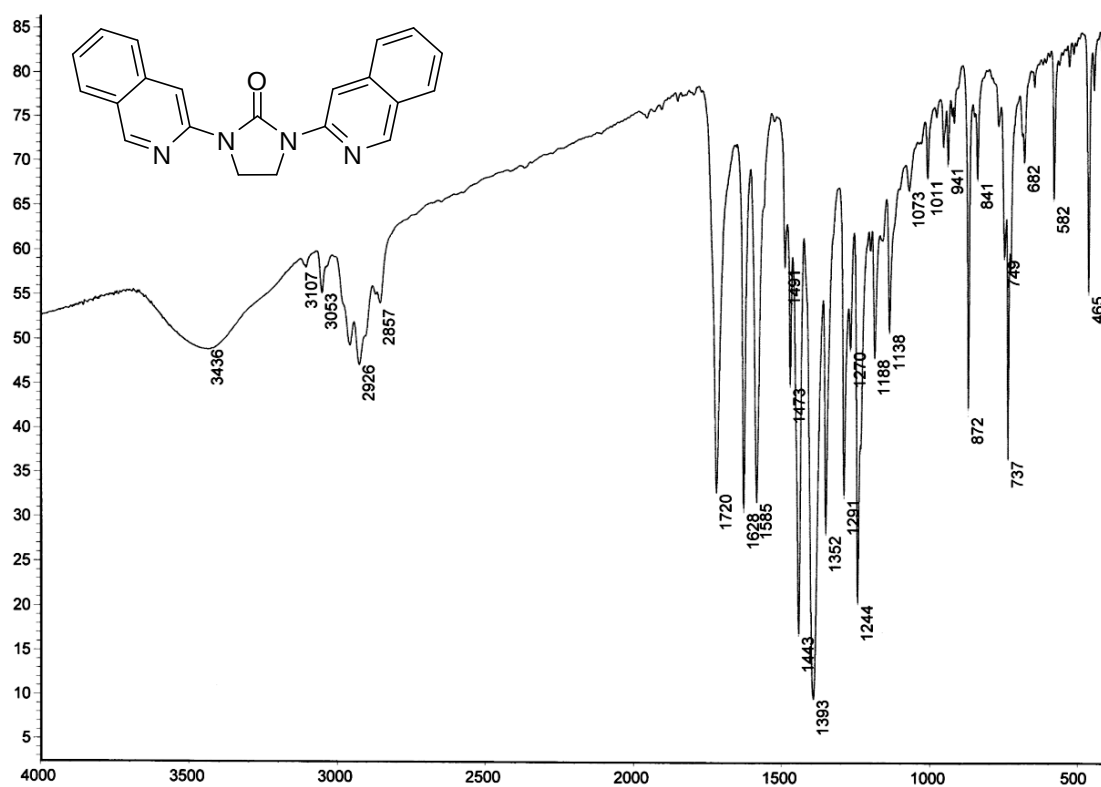
IR (KBr) spectrum of 1-(isoquinolin-3-yl)pyrrolidin-2-one (**3b**)



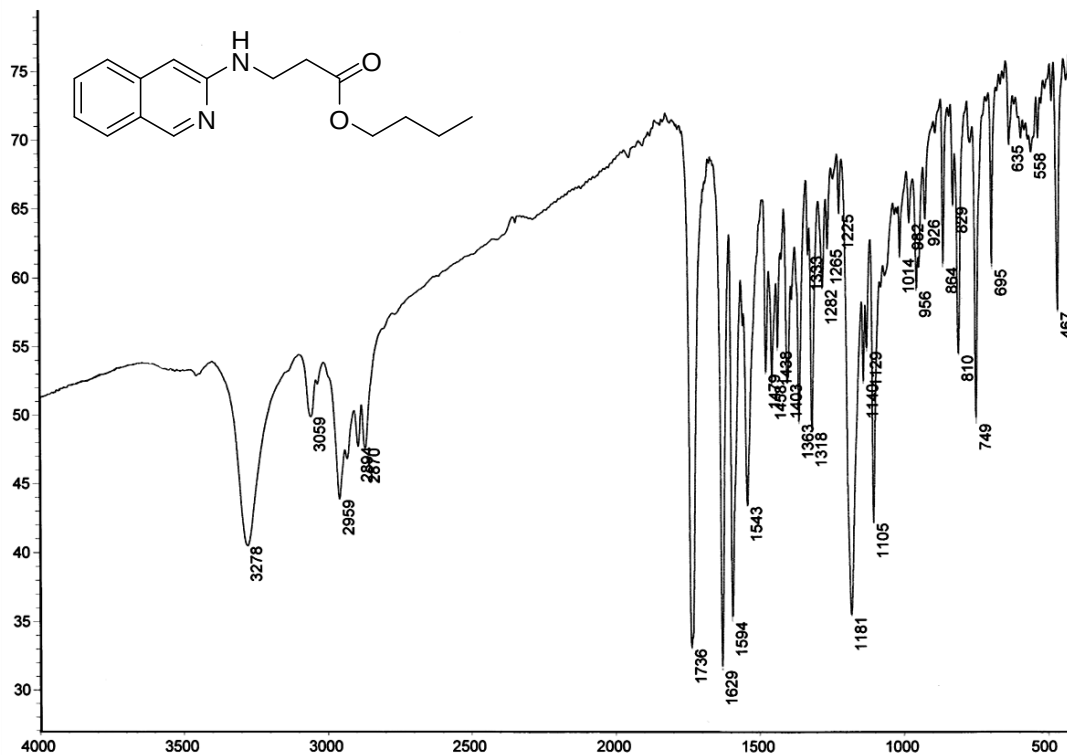
IR (KBr) spectrum of 1-(isoquinolin-3-yl)imidazolidin-2-one (**3e**)



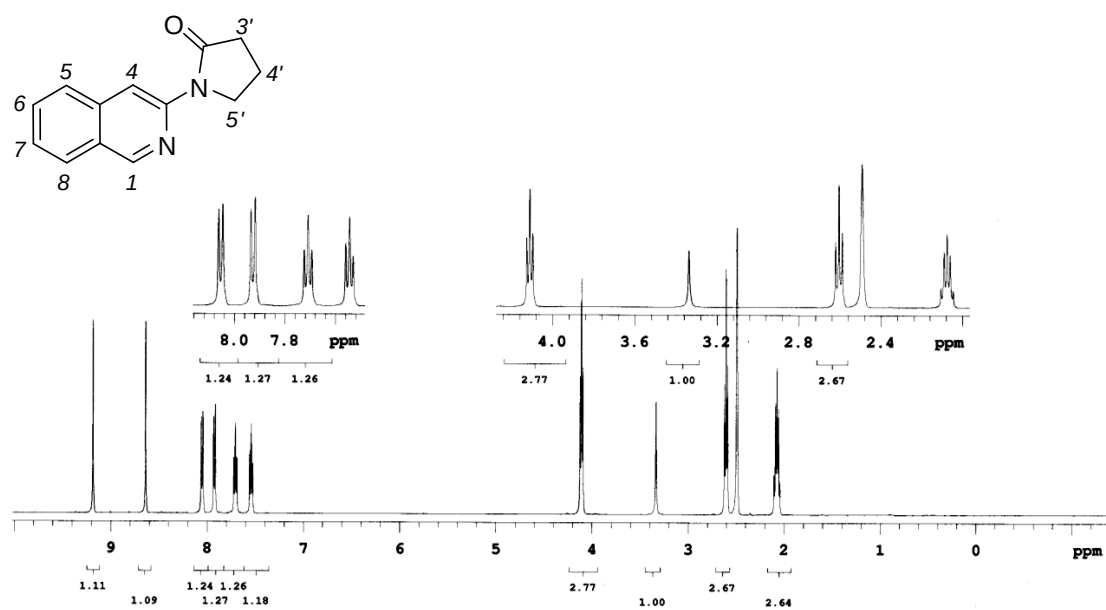
IR (KBr) spectrum of 1,3-di(isoquinolin-3-yl)imidazolidin-2-one (**4a**)



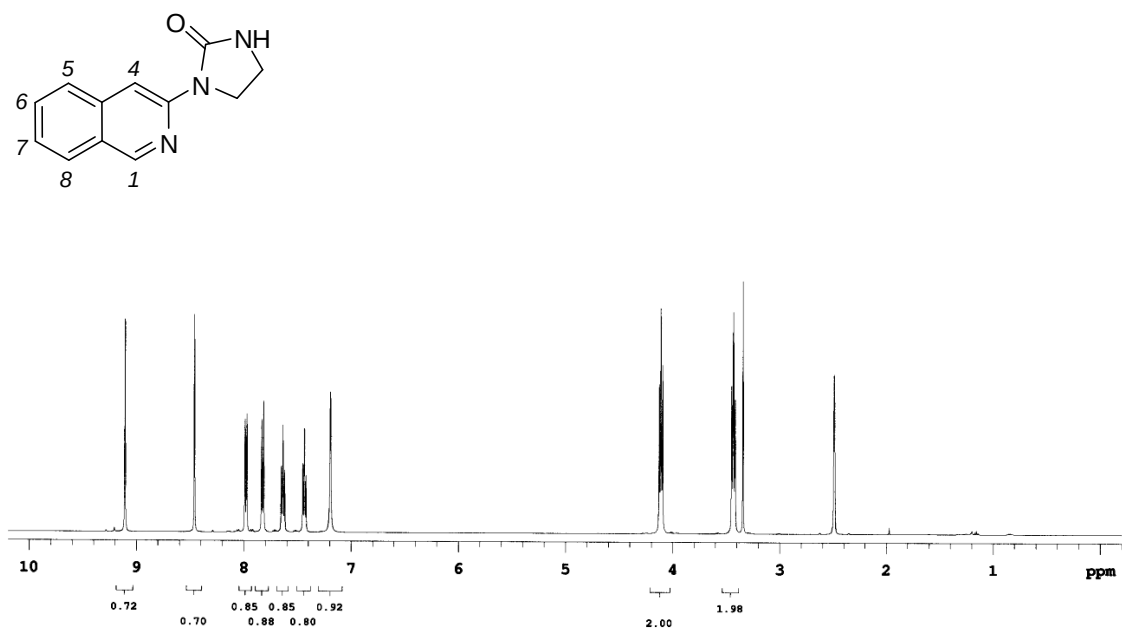
IR (KBr) spectrum of *n*-butyl 3-(isoquinolin-3-ylamino)propanoate (**8**)



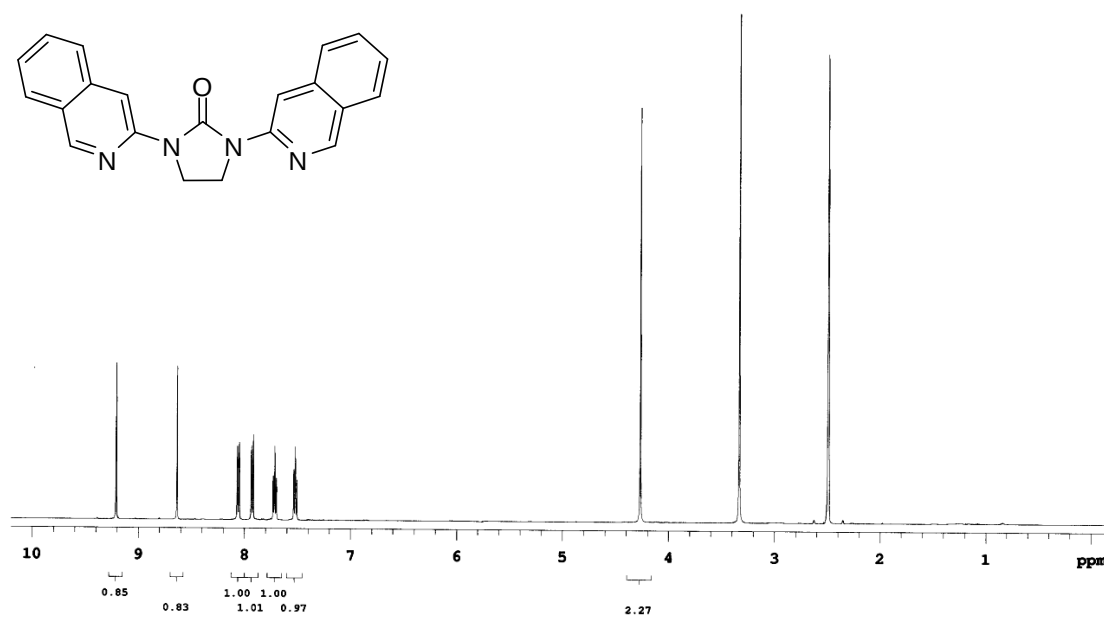
^1H NMR spectrum of 1-(isoquinolin-3-yl)pyrrolidin-2-one (**3b**) in $\text{DMSO}-d_6$ (500 MHz)



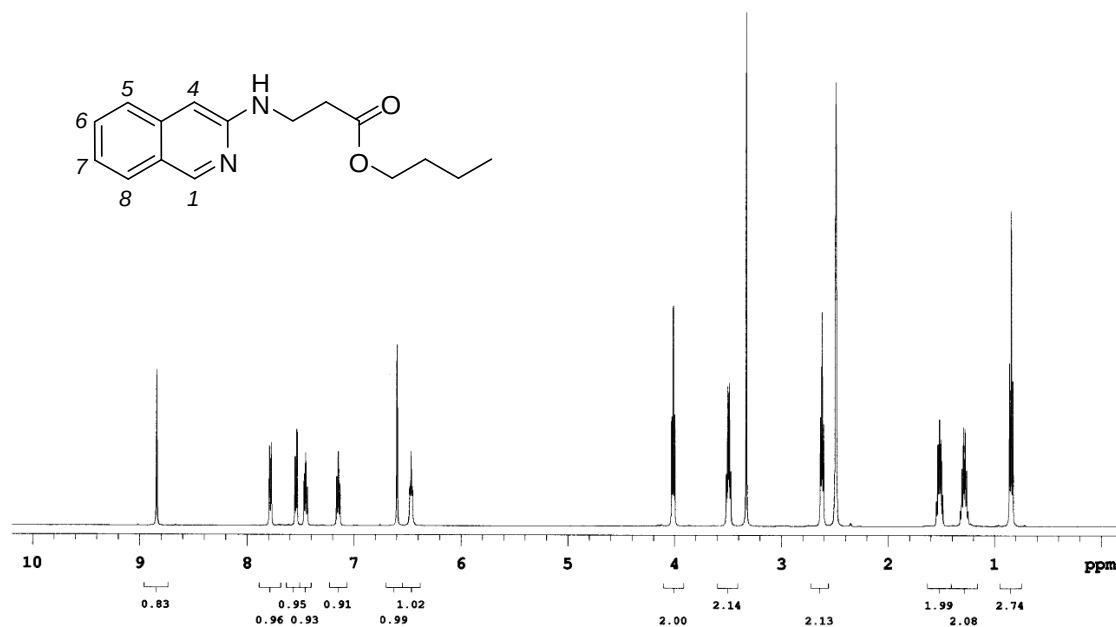
^1H NMR spectrum of 1-(isoquinolin-3-yl)imidazolidin-2-one (**3e**) in $\text{DMSO}-d_6$ (500 MHz)



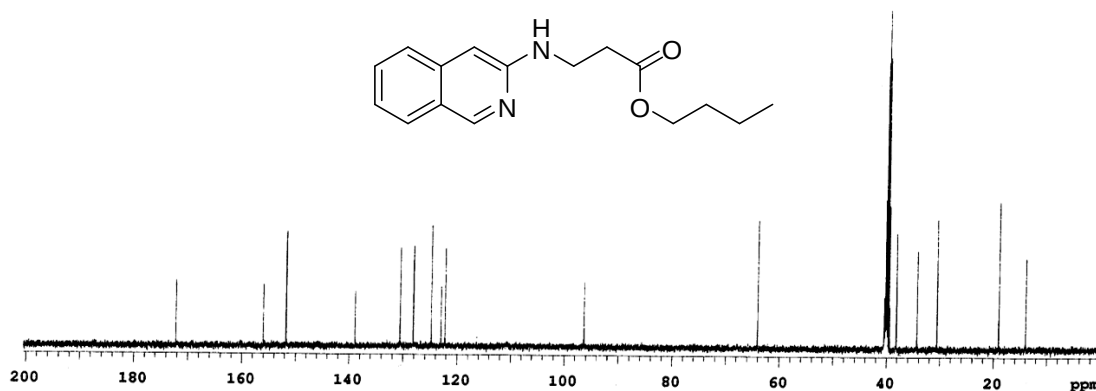
^1H NMR spectrum of 1,3-di(isoquinolin-3-yl)imidazolidin-2-one (**4a**) in DMSO-d_6 (500 MHz)



^1H NMR spectrum of *n*-butyl 3-(isoquinolin-3-ylamino)propanoate (**8**) in DMSO-d_6 (500 MHz)

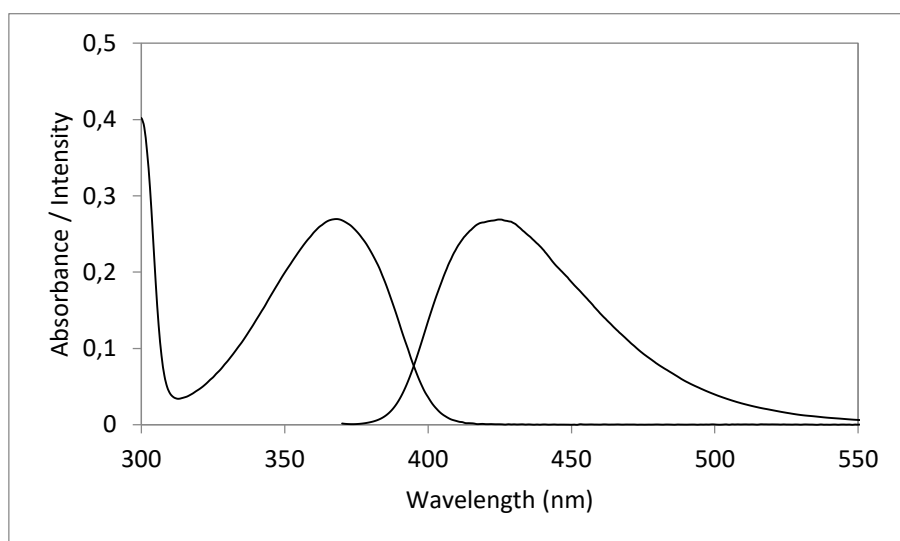
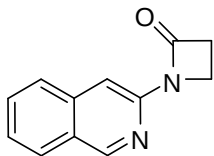


^{13}C NMR spectrum of *n*-butyl 3-(isoquinolin-3-ylamino)propanoate (**8**) in DMSO-d_6 (125 MHz)

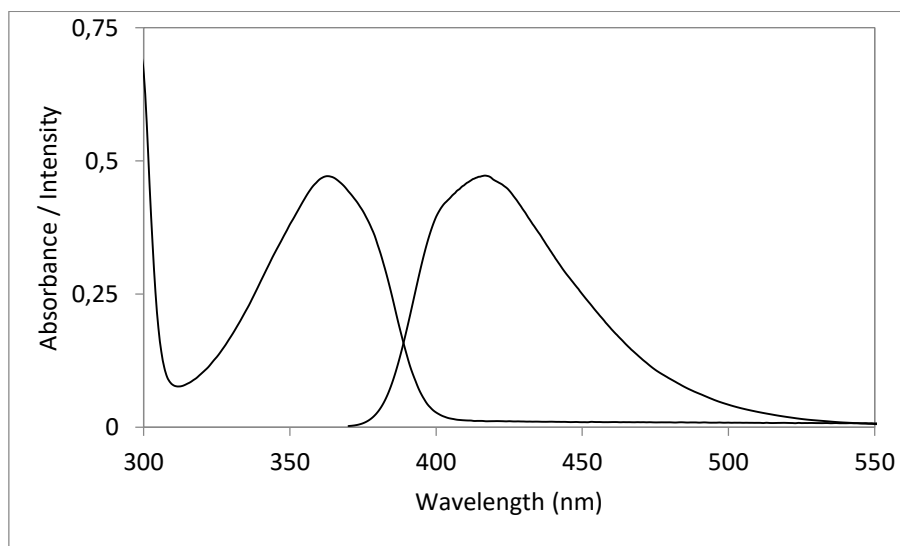
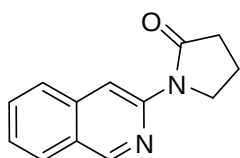


Copies of absorption and emission spectra of compounds **3a-f**, **5**, **7a-b**, **7d**, **8** and **9**

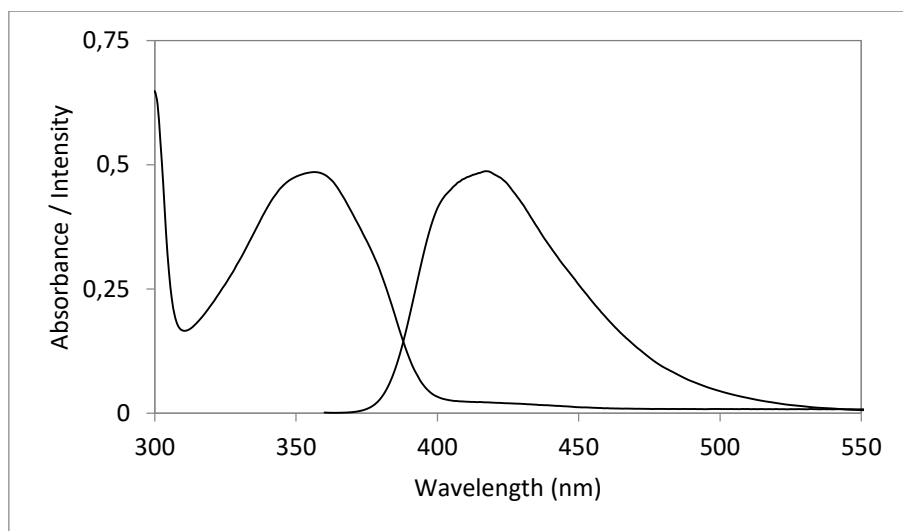
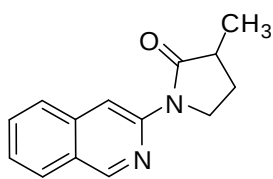
1-(isoquinolin-3-yl)azetidin-2-one (3a)



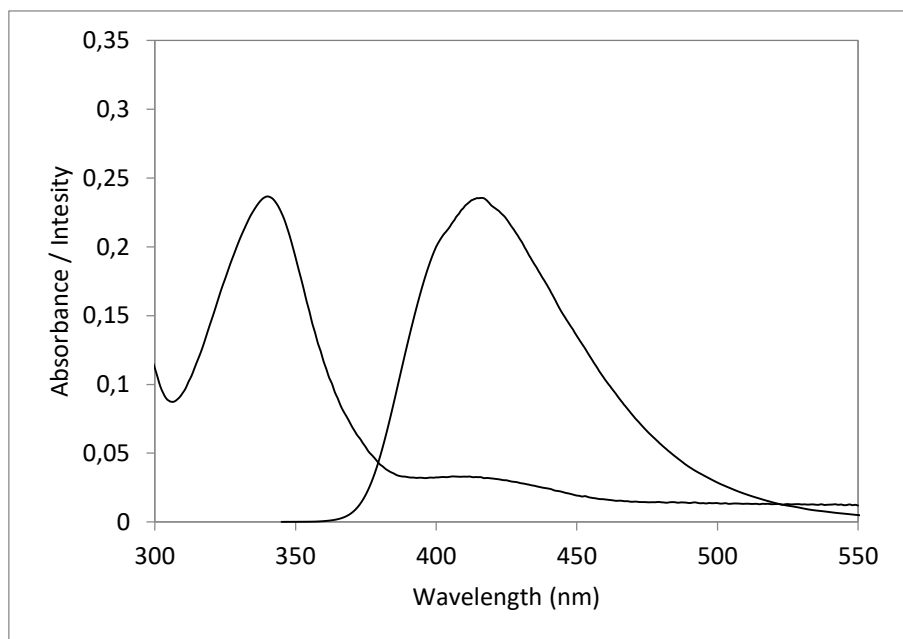
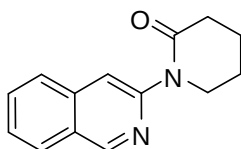
1-(isoquinolin-3-yl)pyrrolidin-2-one (3b)



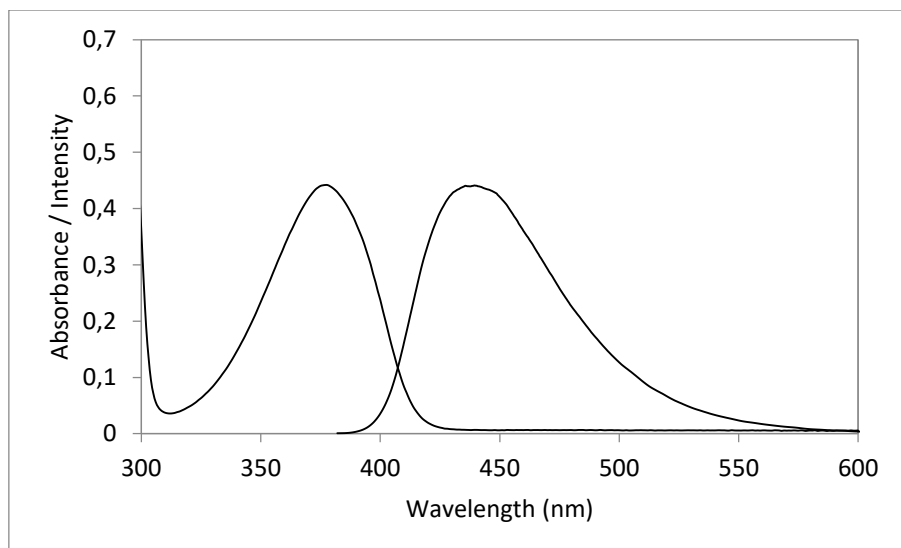
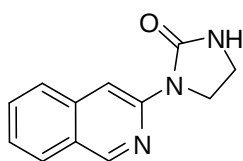
1-(isoquinolin-3-yl)-3-methylpyrrolidin-2-one (3c)



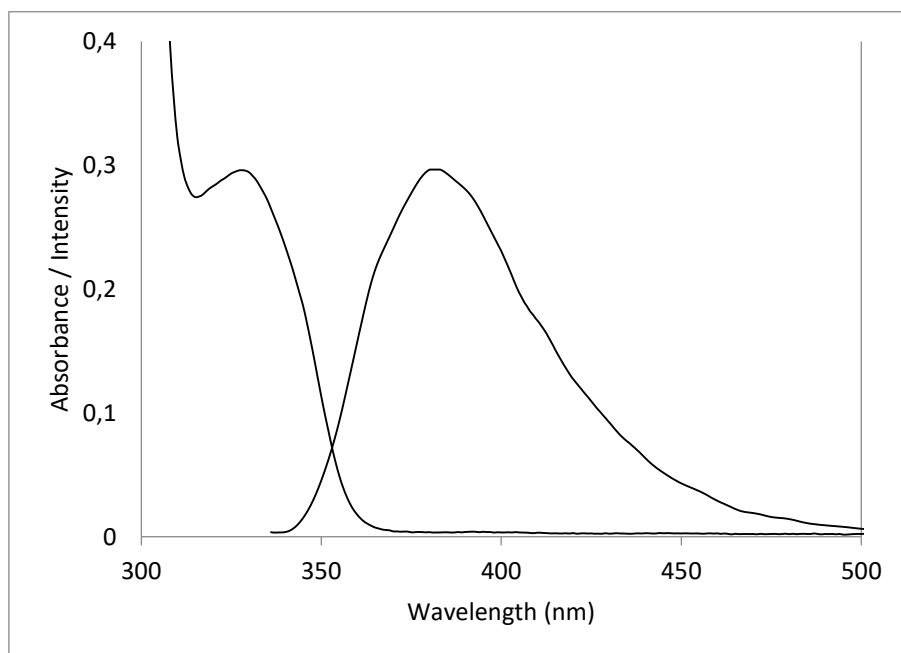
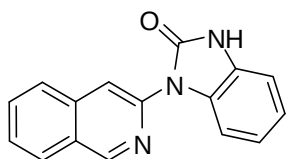
1-(isoquinolin-3-yl)piperidin-2-one (3d)



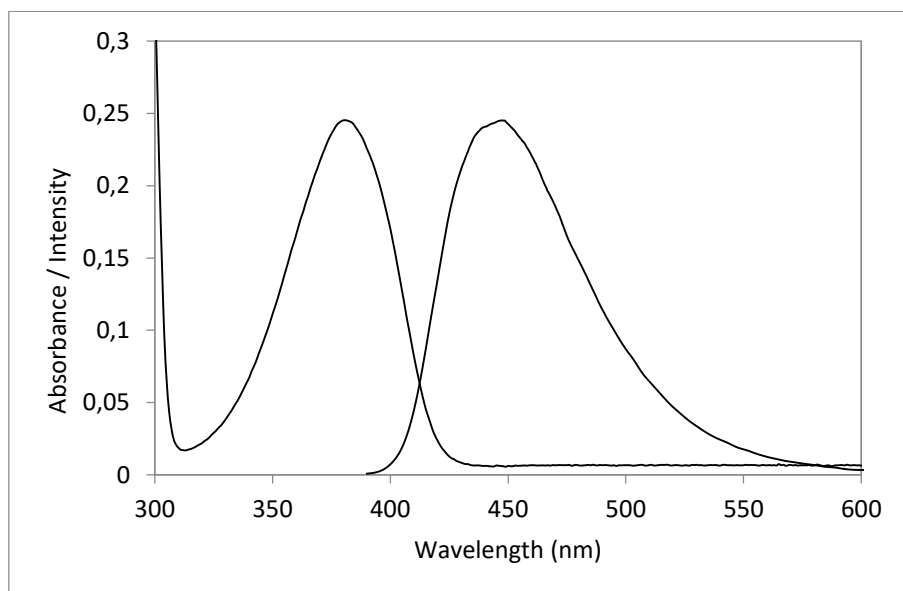
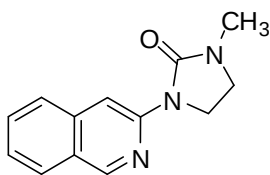
1-(isoquinolin-3-yl)imidazolidin-2-one (3e)



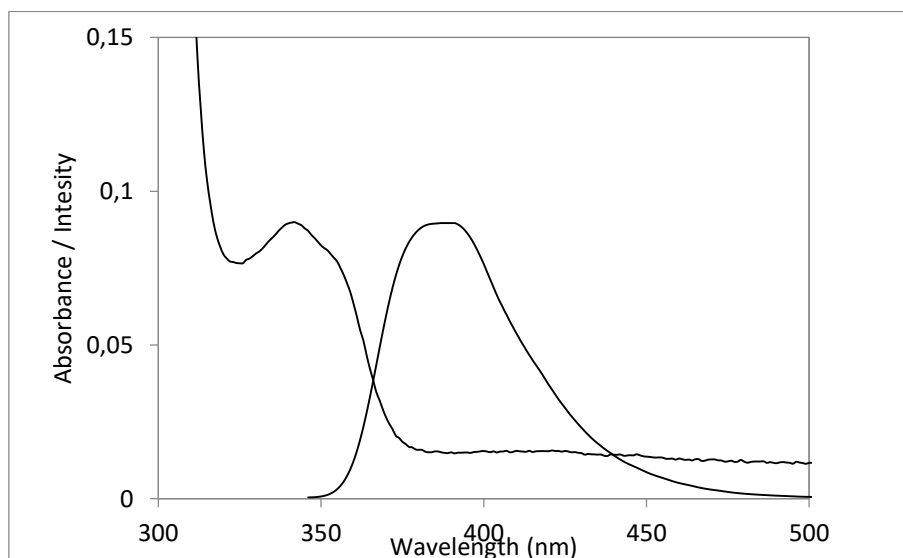
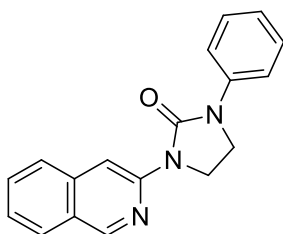
1-(isoquinolin-3-yl)-1H-benzoimidazol-2(3H)-one (3f)



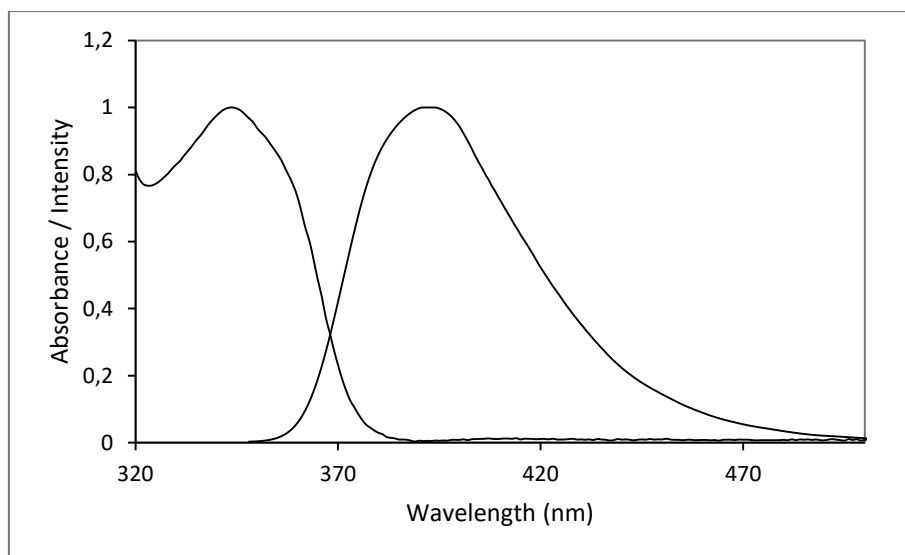
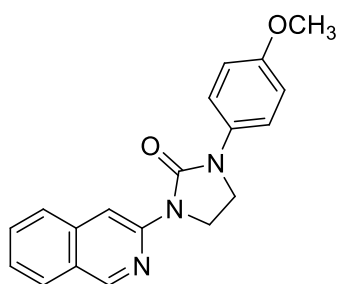
1-(isoquinolin-3-yl)-3-methylimidazolidin-2-one (5)



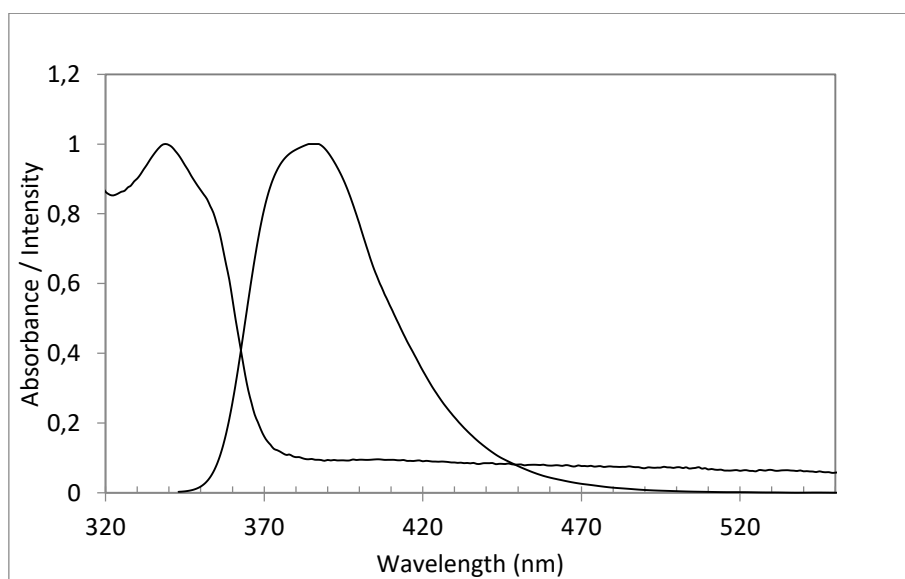
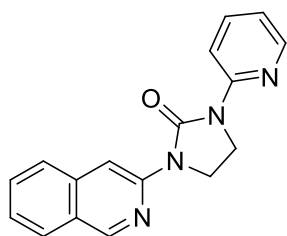
1-(isoquinolin-3-yl)-3-phenylimidazolidin-2-one (7a)



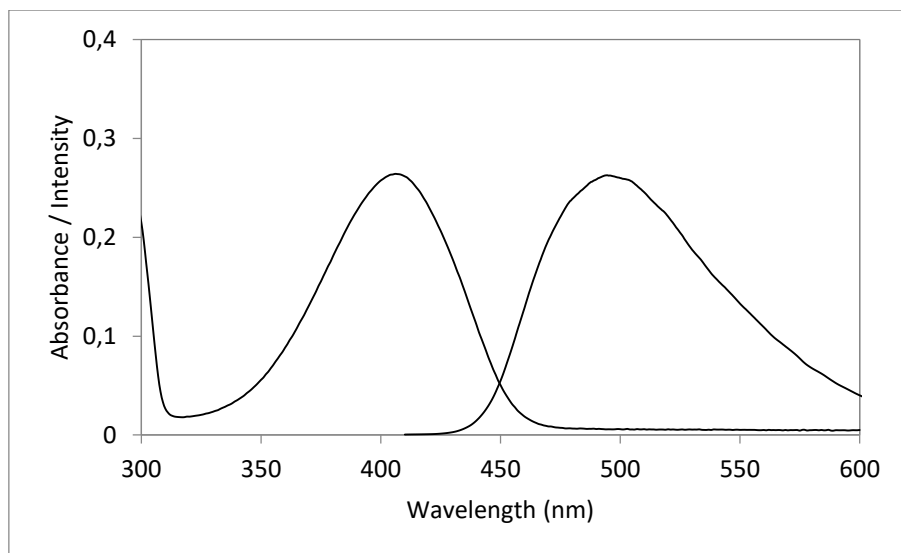
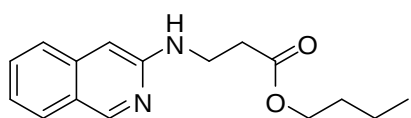
1-(isoquinolin-3-yl)-3-(4-methoxyphenyl)imidazolidin-2-one (**7b**)



1-(isoquinolin-3-yl)-3-(pyridin-2-yl)imidazolidin-2-one (**7d**)



n-Butyl 3-(isoquinolin-3-ylamino)propanoate (**8**)



3-(isoquinolin-3-ylamino)-1-(pyrrolidin-1-yl)propan-1-one (**9**)

