

Volume 75 (2019)

Supporting information for article:

Synthesis, spectroscopic (FT–IR and UV–Vis), crystallographic and theoretical studies, and molecular docking simulation of an imatinib-like template

Rodolfo Moreno-Fuquen, Kevin Arango-Daraviña, Esteban Garcia, Juan-C. Tenorio and Javier Ellena



Excitation energies and oscillator strengths of UV spectrum for pyrimidine-piridine compound

Excited State	2: Singlet-A	3.9238 eV 315.98 nm f=0.0964 <s**2>=0.000</s**2>
44 -> 46	-0.13040	
45 -> 46	0.68340	
Excited State	6: Singlet-A	4.9640 eV 249.77 nm f=0.3648 <s**2>=0.000</s**2>
41 -> 46	0.10469	
41 -> 47	0.10401	
43 -> 46	0.60913	
43 -> 47	-0.10229	
45 -> 47	-0.28880	
Excited State	8: Singlet-A	5.3490 eV 231.79 nm f=0.0295 <s**2>=0.000</s**2>
41 -> 46	-0.44300	
43 -> 46	0.18774	
43 -> 47	0.49688	

4-(pyridin-2-yl)pyrimidin-2-amine



¹**H NMR** (400 MHz, Chloroform-*d*), δ(ppm): 8.69 (dd, *J* = 4.7, 1.7 Hz, 1H), 8.43 (d, *J* = 5.2 Hz, 1H), 8.31 (d, *J* = 7.9 Hz, 1H), 7.81 (td, *J* = 7.8, 1.8 Hz, 1H), 7.62 (d, *J* = 5.1 Hz, 1H), 7.36 (dd, *J* = 7.5, 4.8 Hz, 1H), 5.33 (s, 2H,-N**H**₂).



¹³**C NMR** (100 MHz, Chloroform-*d*), δ(ppm): 164.23,163.29,159.49,154.48, 149.57,137.07,125.19,121.61,108.18.



IR (FT-IR): 3469.94, 3296.35, 3126.61, 1651.07, 1614.42, 1566.20, 1544.98, 1463.97, 1431.18, 1342.46, 1301.95, 1242.16, 1211.30, 1103.28, 1093.64, 846.75, 804.32, 783.10, 742.59, 650.01

