Inhibition of *Trypanosoma cruzi* Hexokinase by Bisphosphonates

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Supporting Information

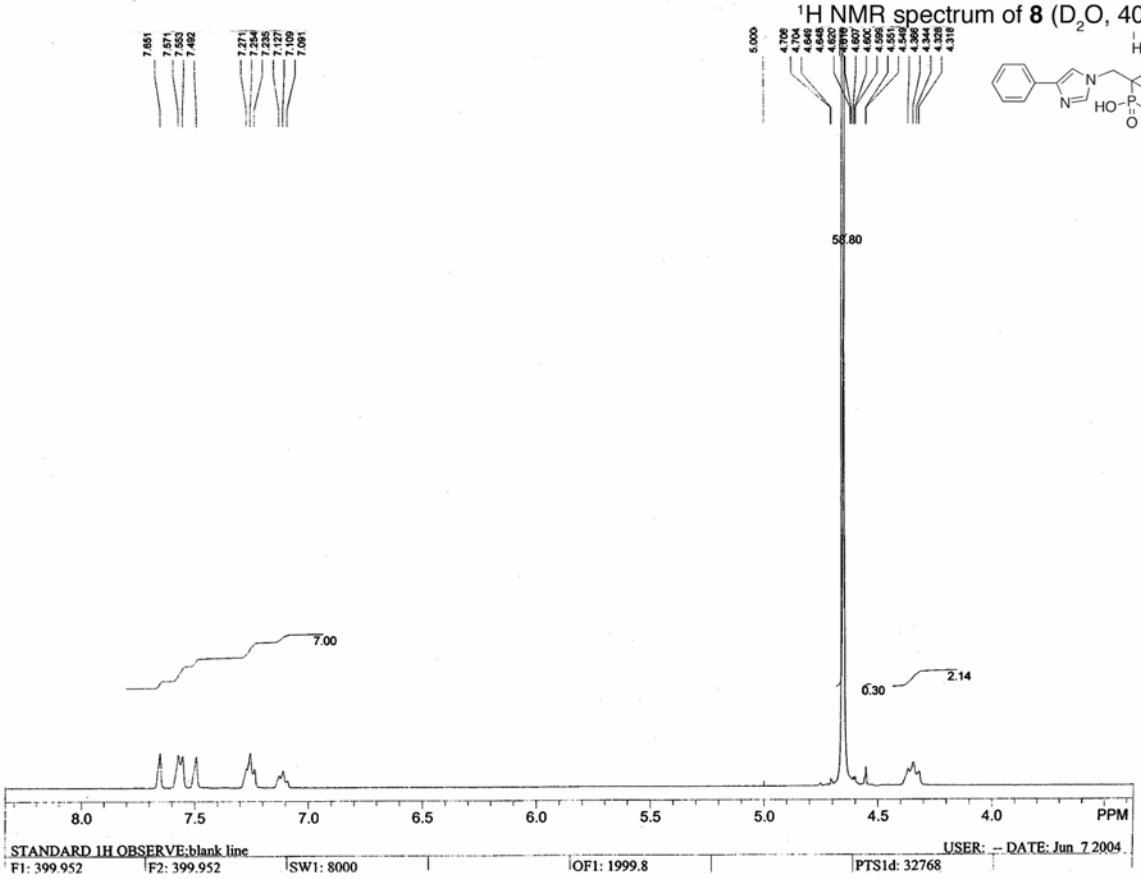
C/ H/ N Microanalytical Data S2

^{1}H and ^{31}P NMR spectra for compound 8, 11, 16, 22, 23 ..... S3-S8

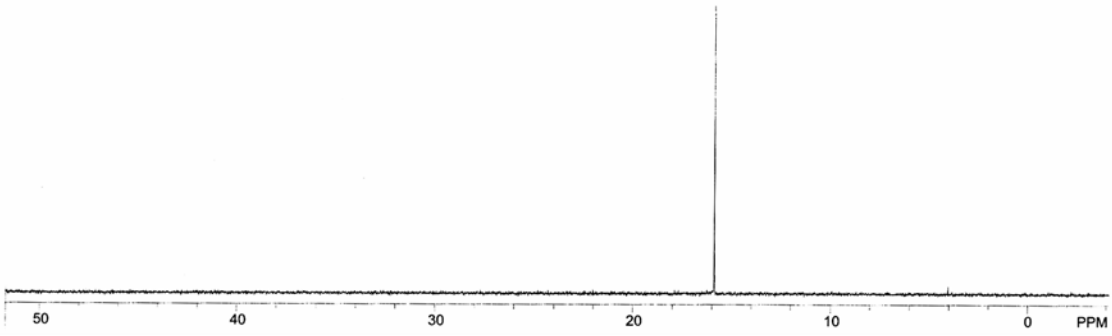
Table S1: Analytical Data for Bisphosphonates

Cpd	Molecular Formula	Calculated			Found		
		Carbon (%)	Hydrogen (%)	Nitrogen (%)	Carbon (%)	Hydrogen (%)	Nitrogen (%)
8	$C_{11}H_{18}N_2O_9P_2$	34.39	4.72	7.29	34.35	4.20	7.18
11	$C_{15}H_{15}F_2O_7P_2Na \bullet H_20$	40.20	3.82	0.00	39.91	3.91	0.00
16	$C_{13}H_{14}FNO_6P_2 \bullet H_20$	41.18	4.25	3.69	41.03	4.15	3.66
22	$C_9H_{16}N_2O_7P_2$	33.14	4.94	8.59	32.68	4.51	8.12
23	$C_{13}H_{14.8}NPO_{3.4}$	57.74	5.52	5.18	57.81	5.85	5.19
24	$C_{10}H_{17}NO_7P_2$	36.94	5.27	4.31	36.54	5.36	4.25
25	$C_{17}H_{17}O_5PNa_2$	46.27	5.48	0.00	46.47	5.18	0.00
27	$C_{13}H_{15}NO_8P_2 \bullet 0.5\ H_20$	40.64	4.20	3.65	41.11	4.02	3.77
28	$C_{12}H_{14}N_2O_7P_2 \bullet 1.5\ H_20$	37.22	4.43	7.23	37.32	4.15	7.11
39	$C_6H_{10}N_2O_7P_2$	25.37	3.55	9.86	25.21	3.40	9.61
42	$C_7H_{11}N_2P_2O_7Na$	27.62	3.65	9.21	27.90	4.19	9.08

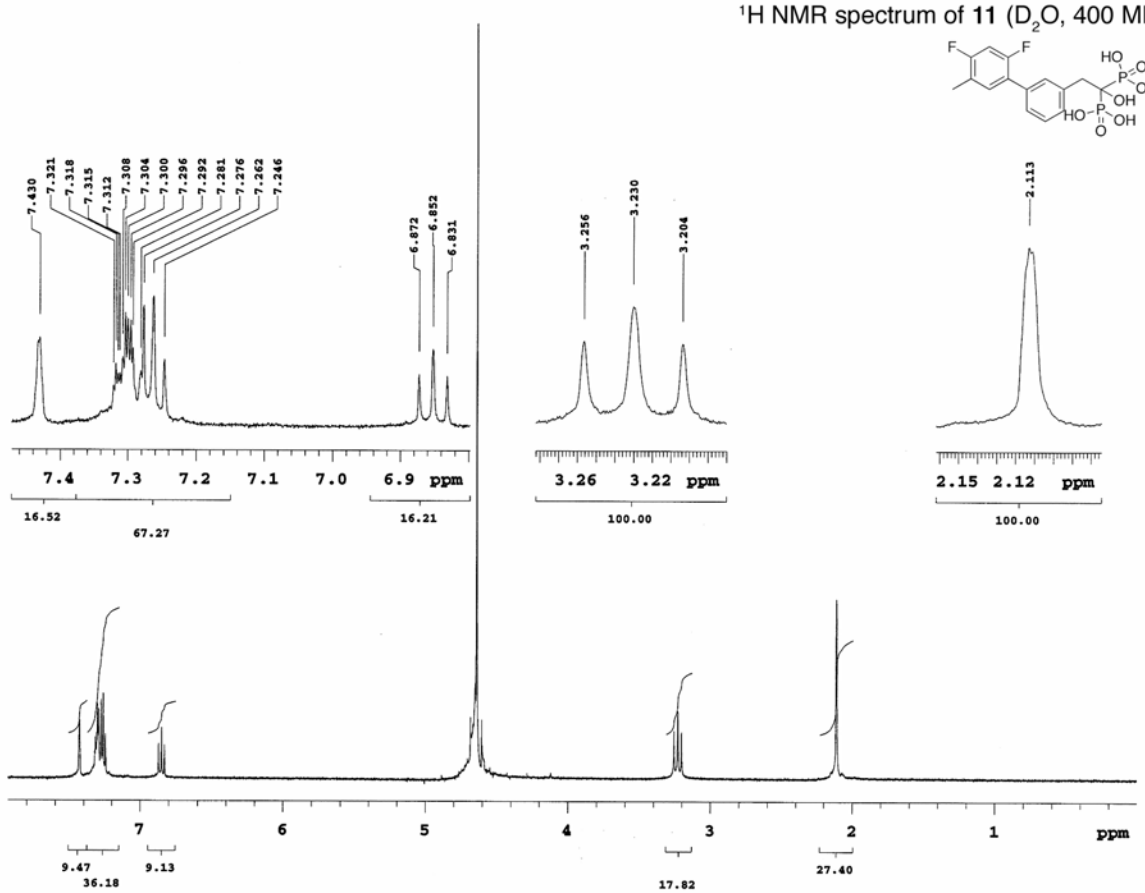
^{1}H NMR spectrum of **8** (D_2O, 400 MHz)



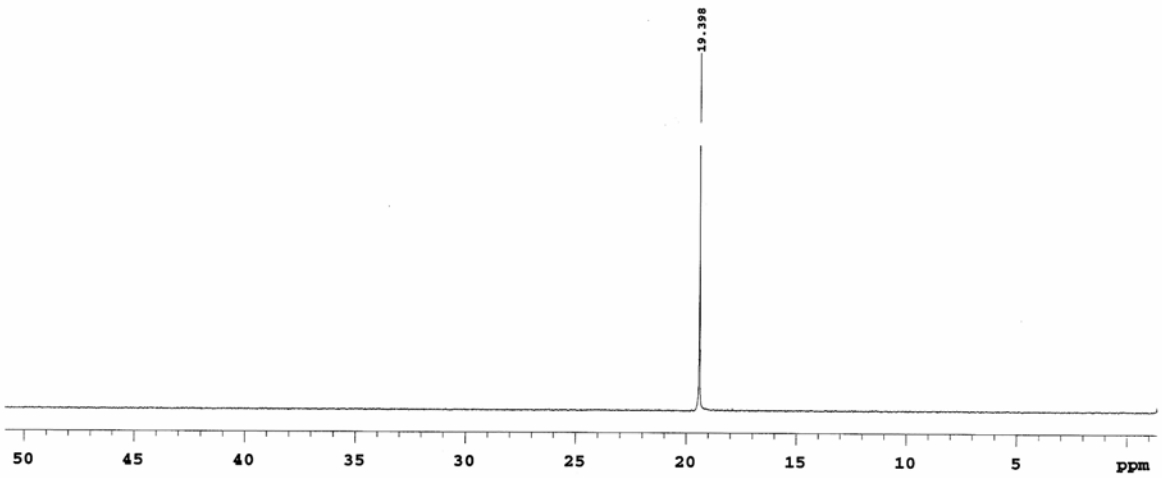
^{31}P NMR spectrum of **8** (D_2O, 161.9 MHz)



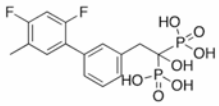
^{1}H NMR spectrum of **11** (D_2O, 400 MHz)

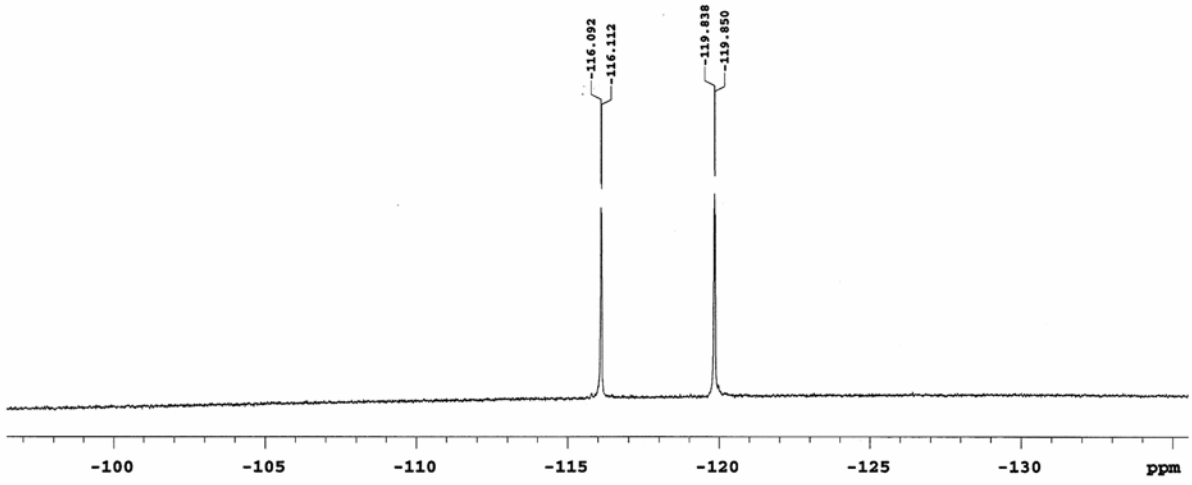


^{31}P NMR spectrum of **11** (D_2O, 161.9 MHz)

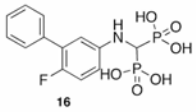


^{19}F NMR Spectrum for **11** (D_2O, 376.9 MHz)

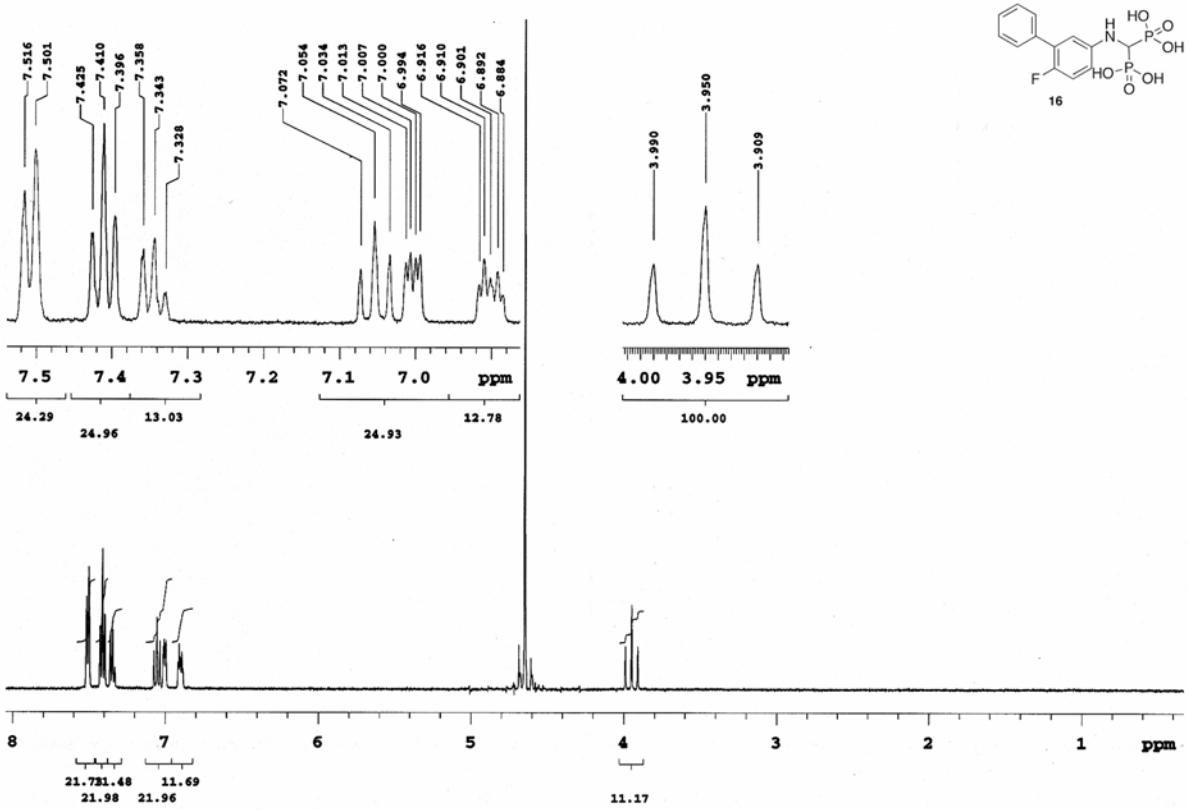




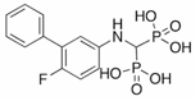
^{1}H NMR Spectrum of **16** (D_2O, 400 MHz)

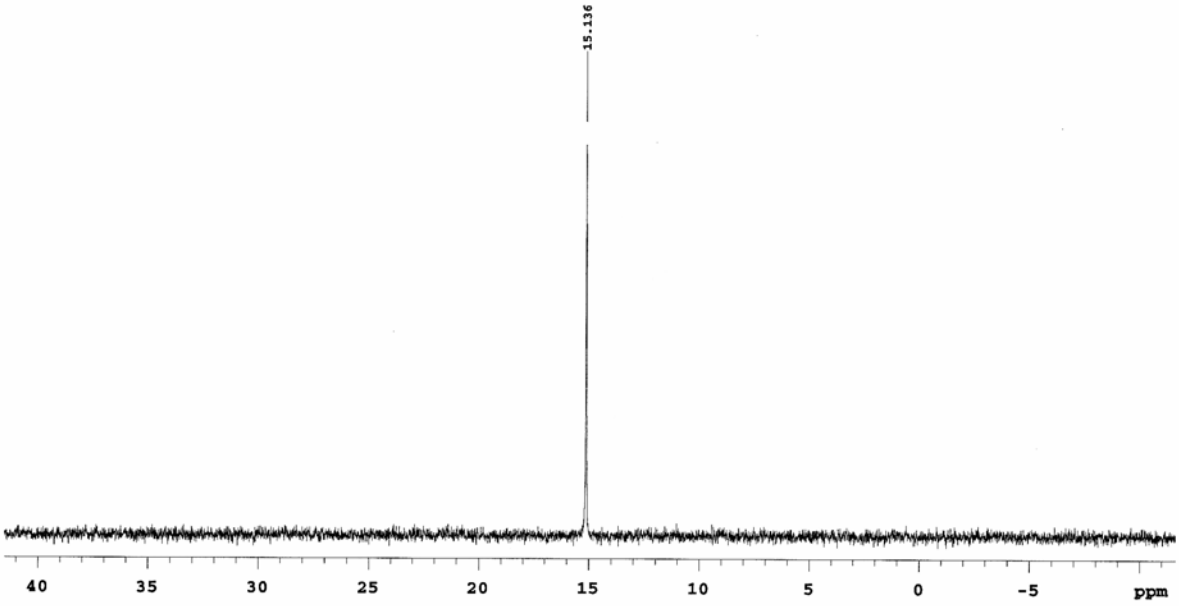


16

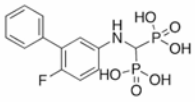


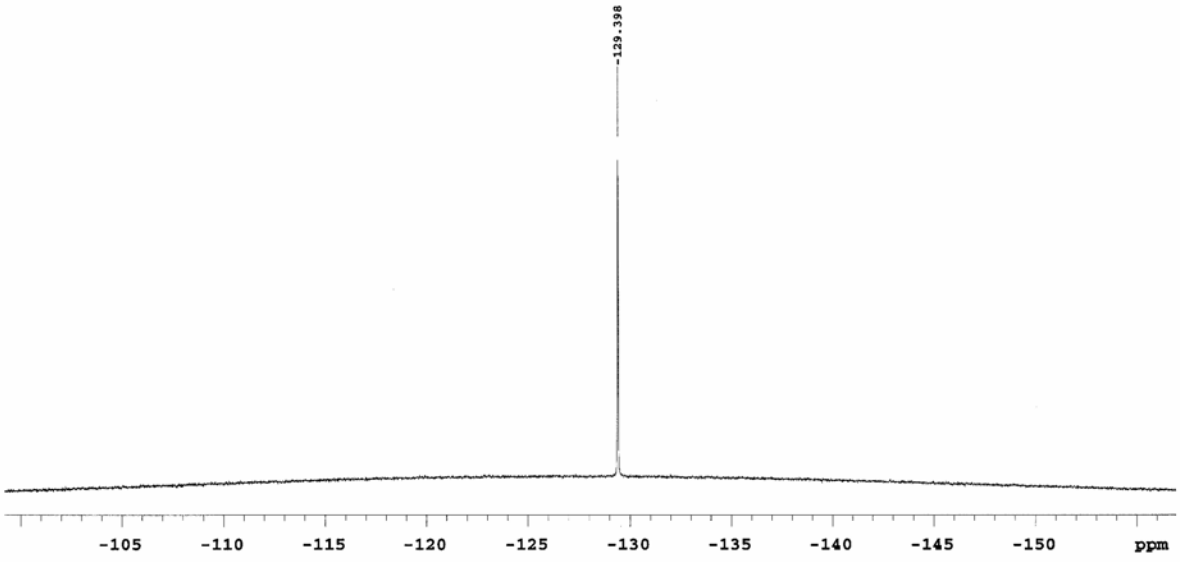
^{31}P NMR Spectrum of **16** (D_2O, 161.9 MHz)



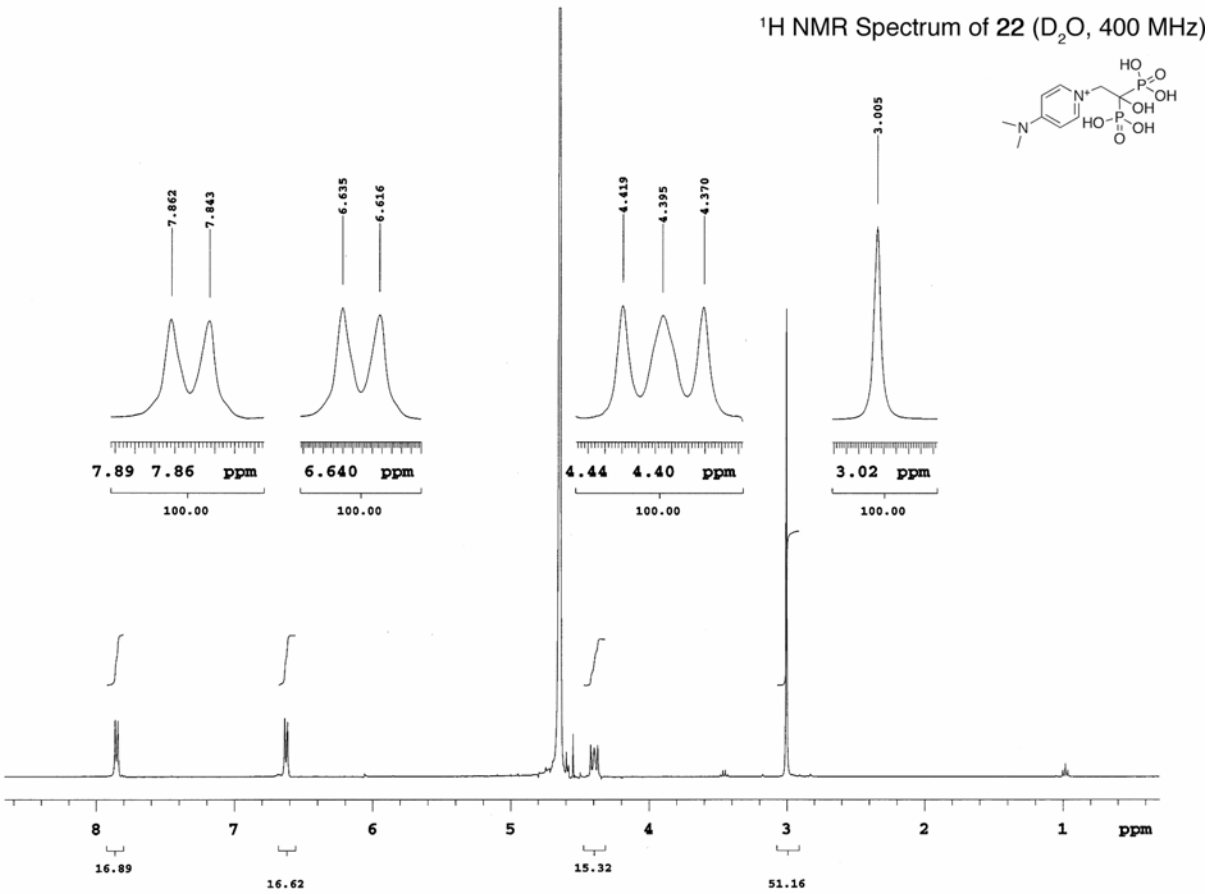


^{19}F NMR Spectrum of **16** (D_2O, 376.9 MHz)

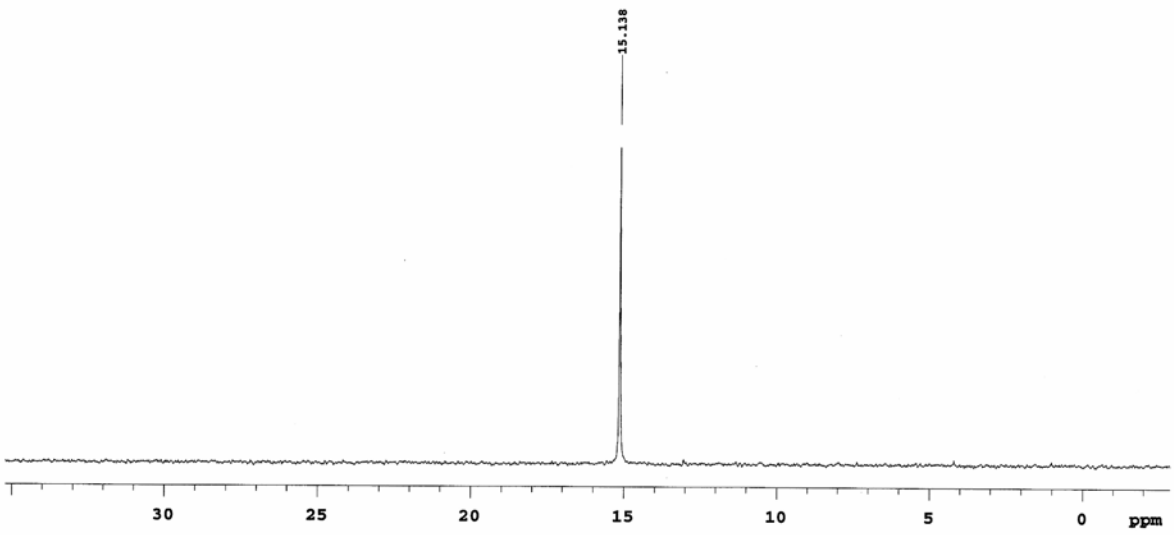




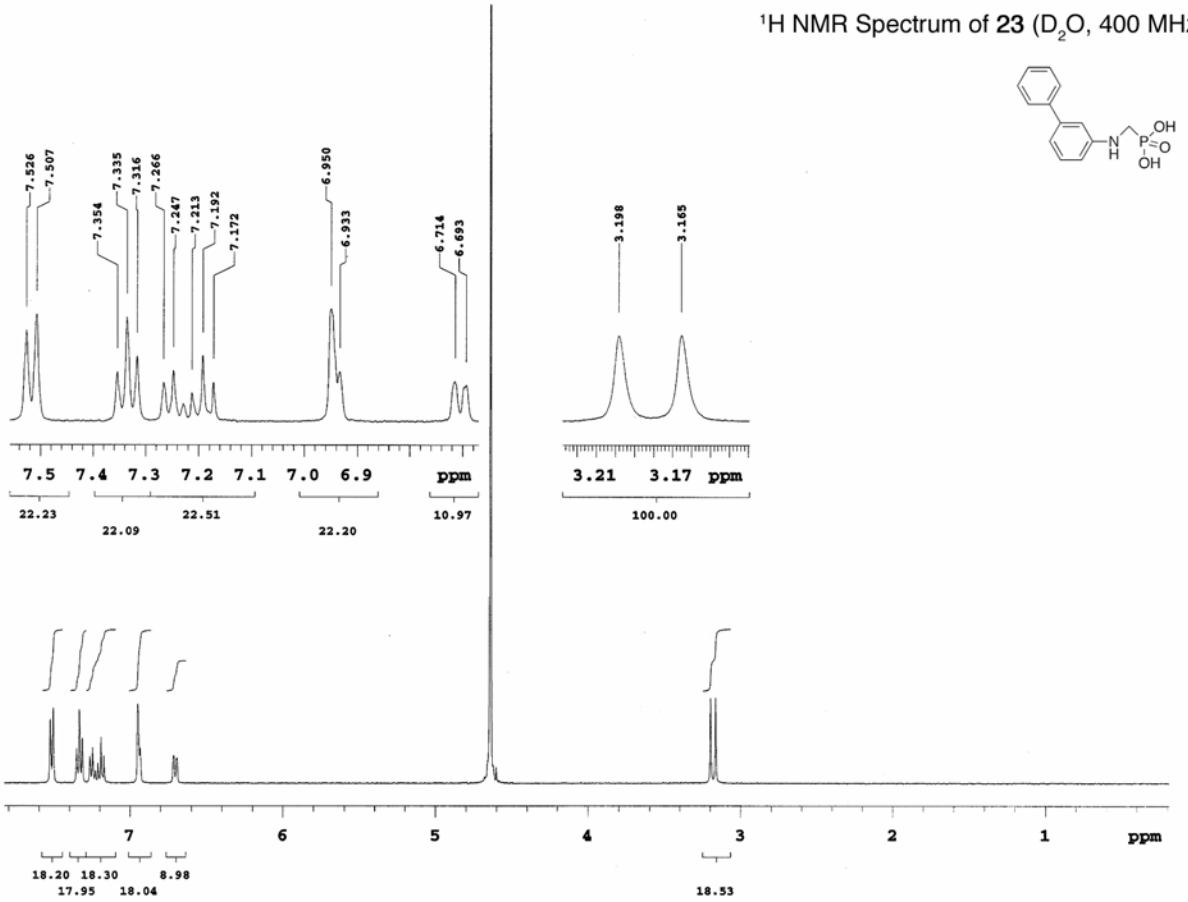
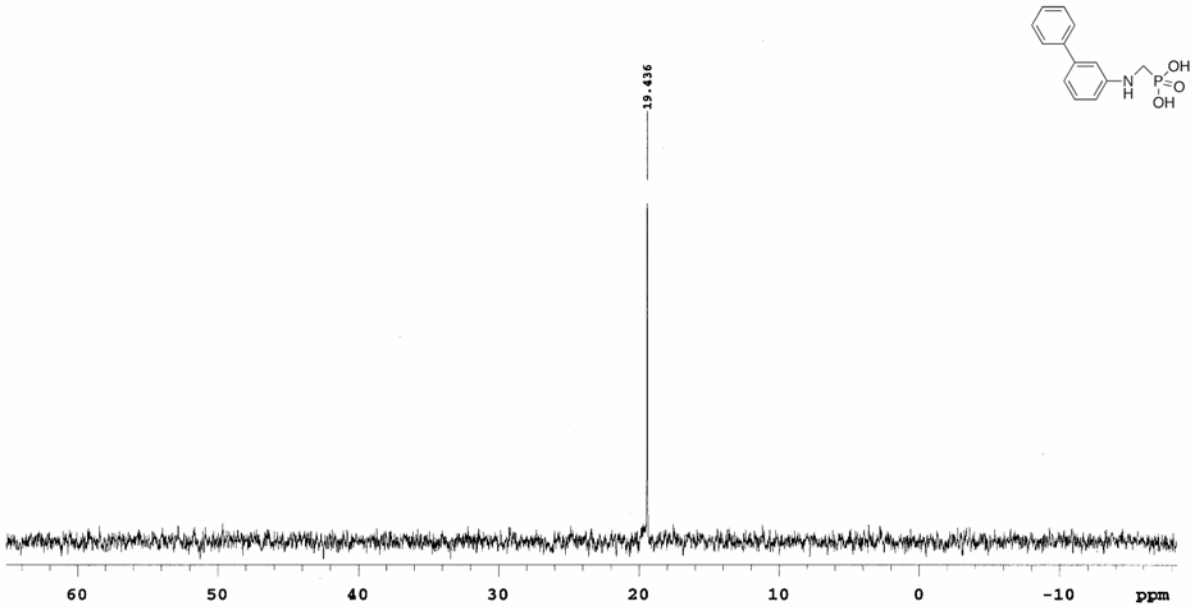
^{1}H NMR Spectrum of **22** (D_2O, 400 MHz)



^{31}P NMR Spectrum of **22** (D_2O, 161.9 MHz)



^{1}H NMR Spectrum of **23** (D_2O, 400 MHz)



^{31}P NMR Spectrum of **23** (D_2O, 161.9 MHz)