Supporting Information

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Synthesis and molecular docking study of ethyl piperidine-1carboxylate derivative Schiff bases

Sertan Aytaç^{1,2}

¹Department of Food Processing, Kaman Vocational School, Kırşehir Ahi Evran University,

40300, Kaman, Kırşehir, Türkiye

²Department of Chemistry, Faculty of Science, Atatürk University, 25050, Yakutiye, Erzurum, Türkiye

Table of Contents										Page
Figure S1: 400 MHz ¹ H NMR spectrum of Ethyl (<i>E</i>)-4-((pyridin-2ylimino)methyl)piperidine-										2
1-carboxylate (14) in CDCl ₃										
Figure	S2:	100	MHz	^{13}C	-NMR	spectrum	of	Ethyl	(<i>E</i>)-4-((pyridin-2-	2
ylimino)methyl)piperidine-1-carboxylate (14) in CDCl ₃										
Figure	S3:	400	MHz	$^{1}\mathrm{H}$	NMR	spectrum	of	Ethyl	(<i>E</i>)-4-((pyridin-3-	3
ylimino)methyl)piperidine-1-carboxylate (15) in CDCl ₃										
Figure	S4:	100	MHz	^{13}C	-NMR	spectrum	of	Ethyl	(<i>E</i>)-4-((pyridin-3-	3
ylimino)methyl)piperidine-1-carboxylate (15) in CDCl ₃										
Figure	S5:	400	MHz	$^{1}\mathrm{H}$	NMR	spectrum	of	Ethyl	(<i>E</i>)-4-((pyridin-4-	4
ylimino)methyl)piperidine-1-carboxylate (16) in CDCl ₃										
Figure	S6:	100	MHz	$^{13}\mathrm{C}$	-NMR	spectrum	of	Ethyl	(<i>E</i>)-4-((pyridin-4	4
ylimino)methyl)piperidine-1-carboxylate (16) in CDCl ₃										
Figure S7: Docking interactions between the protein 7XN1 and the Tacrine									5	
Figure S8: Docking interactions between the protein 7XN1 and the Donepezil									6	
Figure S9: Docking interactions between the protein 7XN1 and compound 14									7	
Figure S10: Docking interactions between the protein 7XN1 and Compound 15										8
Figure S11: Docking interactions between the protein 7XN1 and the compound 16.										9





Figure S1: 400 MHz ¹H NMR spectrum of Ethyl (*E*)-4-((pyridin-2-ylimino)methyl)piperidine-1-carboxylate (**14**) in CDCl₃



Figure S2: 100 MHz ¹³C-NMR spectrum of Ethyl (*E*)-4-((pyridin-2-ylimino)methyl)piperidine-1-carboxylate (**14**) in CDCl₃





Figure S3: 400 MHz ¹H NMR spectrum of Ethyl (*E*)-4-((pyridin-3-ylimino)methyl)piperidine-1-carboxylate (**15**) in CDCl₃



Figure S4: 100 MHz ¹³C-NMR spectrum of Ethyl (*E*)-4-((pyridin-3-ylimino)methyl)piperidine-1-carboxylate (**15**) in CDCl₃





Figure S5: 400 MHz ¹H NMR spectrum of Ethyl (*E*)-4-((pyridin-4-ylimino)methyl)piperidine-1-carboxylate (**16**) in CDCl₃



Figure S6: 100 MHz ¹³C-NMR spectrum of Ethyl (*E*)-4-((pyridin-4-ylimino)methyl)piperidine-1-carboxylate (**16**) in CDCl₃



Figure S7: Docking interactions between the protein 7XN1 and the Tacrine



Figure S8: Docking interactions between the protein 7XN1 and the Donepezil





Figure S9: Docking interactions between the protein 7XN1 and compound 14



Figure S10: Docking interactions between the protein 7XN1 and Compound 15



Figure S11: Docking interactions between the protein 7XN1 and the compound 16.