

## Design and Synthesis of Barbiturates and Hydantoins with Multitarget Antidiabetic Effect<sup>★</sup>

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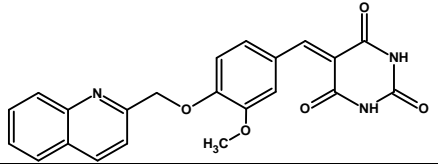
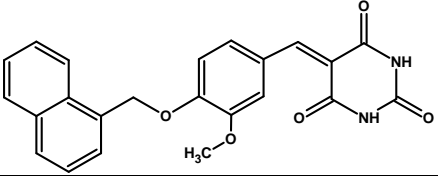
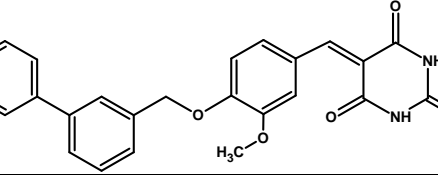
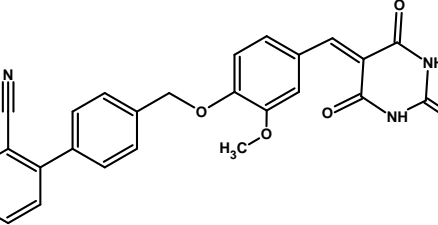
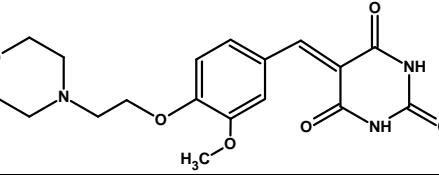
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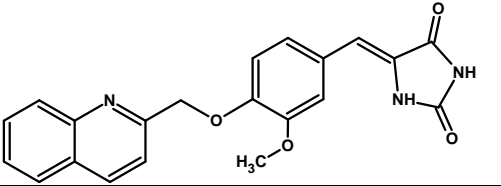
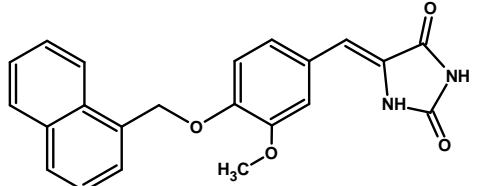
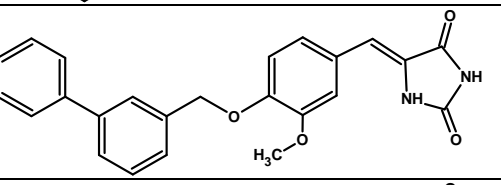
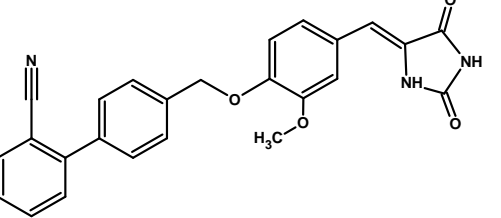
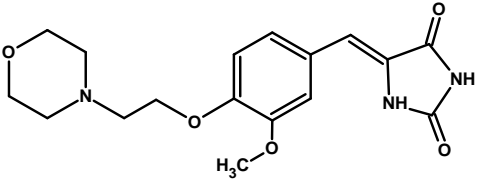
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## Supplementary Information

**Table S1.** Chemical structure, SMILES code and obtained yield for compounds **1-10**.

Series	Compd	Structure	SMILES Code	Yield (%)
B A R B I T U R A T E S	1		<chem>c21cccc1ccc(n2)COc3c(cc(cc3)/C=C4/C(NC(NC4=O)=O)=O)OC</chem>	93
	2		<chem>C(Oc1c(cc(cc1)/C=C2/C(NC(NC2=O)=O)=O)OC)c3cccc4c3cccc4</chem>	86
	3		<chem>C(Oc1c(cc(cc1)/C=C2/C(NC(NC2=O)=O)=O)OC)c3cccc(c3)c4cccc4</chem>	83
	4		<chem>C(Oc1c(cc(cc1)\C=C2\C(NC(NC2=O)=O)=O)OC)c3ccc(cc3)c4cccc4C#N</chem>	79
	5		<chem>C(Oc1c(cc(cc1)\C=C2\C(NC(NC2=O)=O)=O)OC)CN3CCOCC3</chem>	56

H Y D R A N T O I N E S	6		<chem>c1cccc1ccc(n2)COc3c(cc(cc3)\C=C4\C(NC(N4)=O)=O)OC</chem>	62
	7		<chem>C(Oc1c(cc(cc1)\C=C2\C(NC(N2)=O)=O)OC)c3cccc4c3cccc4</chem>	66
	8		<chem>C(Oc1c(cc(cc1)\C=C2\C(NC(N2)=O)=O)OC)c3cccc(c3)c4cccc4</chem>	84
	9		<chem>C(Oc1c(cc(cc1)\C=C2\C(NC(N2)=O)=O)OC)c3ccc(cc3)c4cccc4C#N</chem>	76
	10		<chem>C(Oc1c(cc(cc1)\C=C2\C(NC(N2)=O)=O)OC)CN3CCOCC3</chem>	84