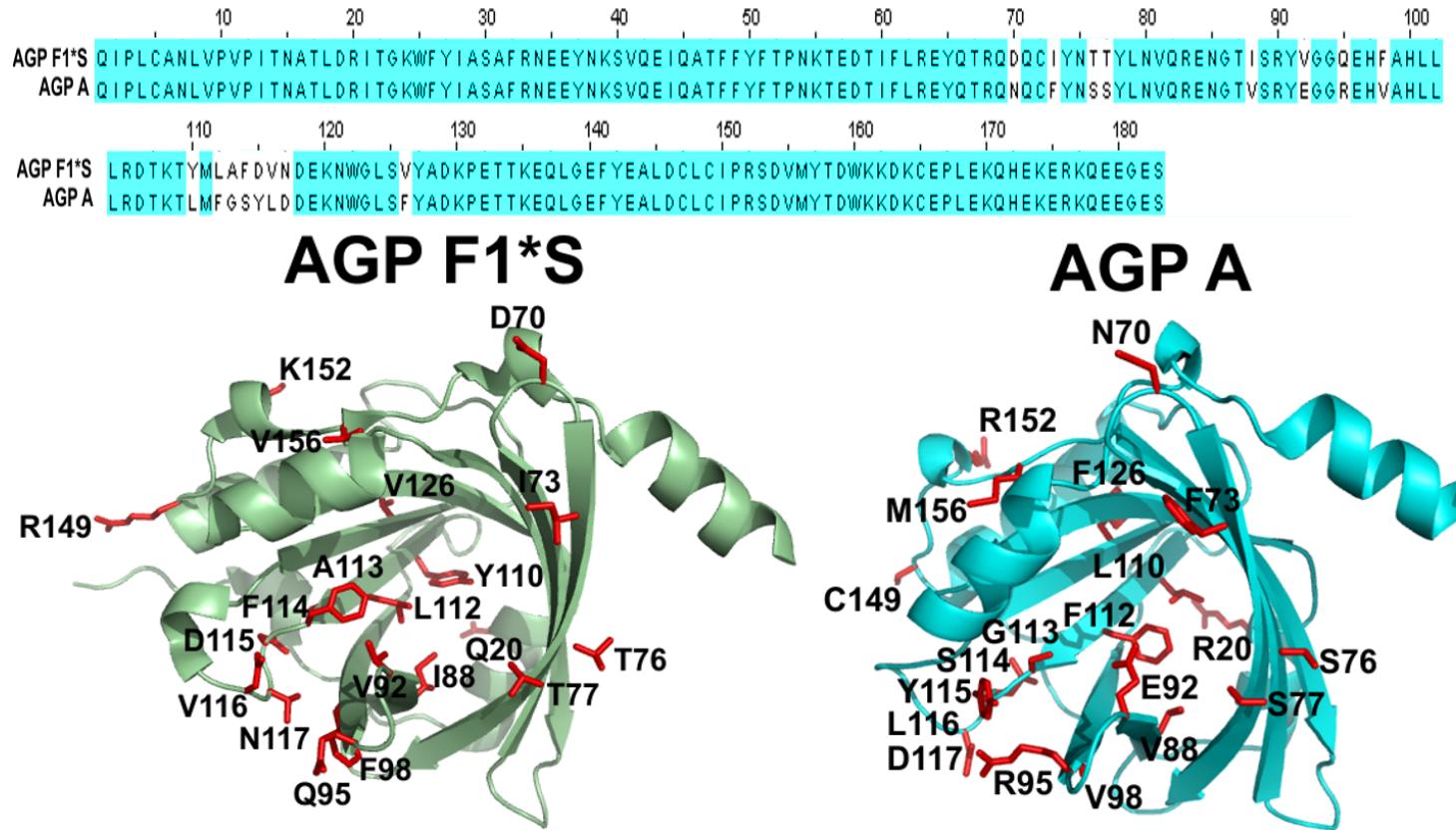


SUPPLEMENTARY INFORMATION

SI FIGURE CAPTIONS

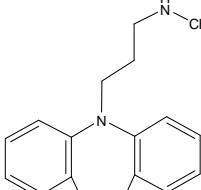
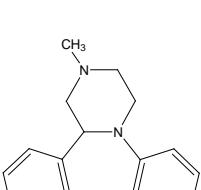
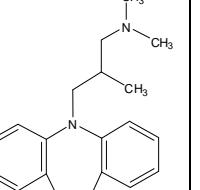
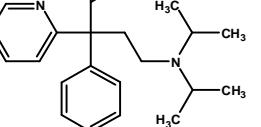
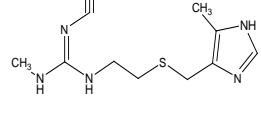
SI Figure 1. Sequence differences in the crystallographic structures of the F1*S and A variants of human AGP. *Top panel.* The amino acid sequence alignment with conserved positions shaded. *Bottom panel.* The amino acid sequence differences mapped onto the crystallographic structure of each variant shown in ribbon representation with amino acid difference in stick representation and labeled in single letter code.

SI Figure 1



SI Table 1. Isothermal titration calorimetric parameters for binding of basic drugs to AGP at 30°C in 20 mM HEPES pH 7.4

Parameter	Chlorpromazine	Amitriptyline	Imipramine	Dothepin	Nortriptyline
^a clogD pH 7.4	3.2	4.3	2.4	3.8	3.1
PSA	6.5	3.2	6.5	3.2	12
<i>n</i>	0.97	1.93	2.81	2.58	2.13
K _d (μM)	21.9	32.9	69.9	84.7	123
ΔH (kcal/mol)	-3.91	-1.40	-3.27	-4.10	-2.88
TΔS (kcal/mol)	2.50	4.85	2.48	1.55	2.54
ΔG _o (kcal/mol)	-6.41	-6.25	-5.75	-5.65	-5.42

Parameter	Desimipramine	Miaserine	Triimipramine	Disopyramide	Cimetidine
^a clogD pH 7.4					
PSA	15	6.5	6.5	59	85
<i>n</i>	1.88	2.55	2.80	1.50	2.36
K _d (μM)	149	219	404	29.6	38.9
ΔH (kcal/mol)	-2.52	-2.94	-13.8	-2.37	-3.69
TΔS (kcal/mol)	2.78	2.14	-9.16	4.03	2.42
ΔG _o (kcal/mol)	-5.30	-5.08	-4.64	-6.40	-6.11

^aCalculated logD pH 7.4