Supporting Information

In silico Identification of Potential SARS COV-2 2'-O-methyltransferase Inhibitor: Fragment-Based Screening Approach and MM-PBSA Calculations

A.

B.

$$\blacksquare$$

c.

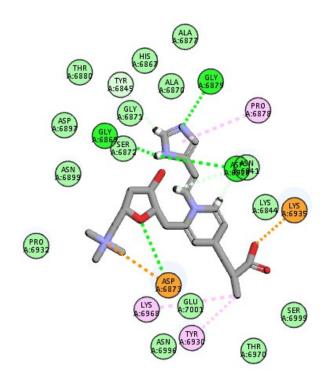
$$H_{2}N$$
 $H_{2}N$
 $H_{3}N$
 $H_{4}N$
 $H_{5}N$
 H_{5

d.

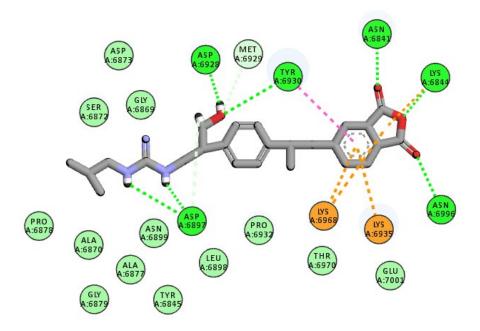
e.

Figure S1. The 2D structures of the other five designed compounds (A) W-1 (B) W-2 (C) W-3 (D) W-4 and (E) W-5.

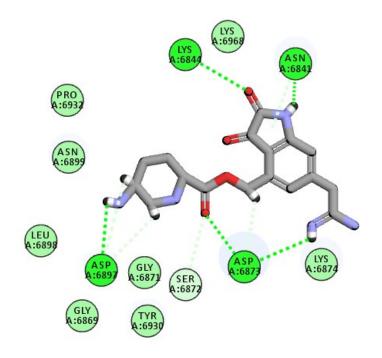
A.



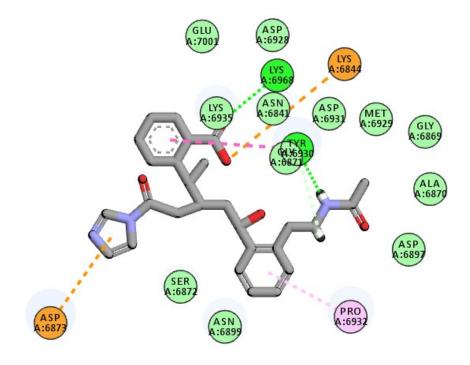
В.



C.



D.



E.

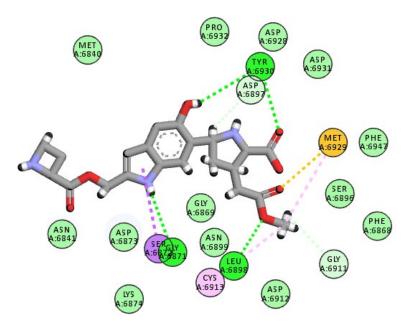


Figure S2. 2D interactions diagram for compounds (A) W-1 (B) W-2 (C) W-3 (D) W-4 and (E) W-5.

The protocol used for conducting the docking study:

receptor = 6wkq.pdbqt

ligand = AP-20.pdbqt

out= AP-20 out.pdbqt

center x = 83

center_y= 13

 $center_z = -0.5$

 $size_x = 22$

 $size_y= 22$

size z=22

exhaustiveness= 64

Table S1. Physico-chemical properties and medicinal chemistry friendliness of AP-20

GIA	Low
BBB	No
P-gP substrate	Yes
CYP1A2 inhibitor	No
CYP2C19 inhibitor	No
CYP2C9 inhibitor	No
CYP2D6 inhibitor	No
CYP3A4 inhibitor	No
PAINS Alerts	0
Egan violations	1
Lipinski Violations	3