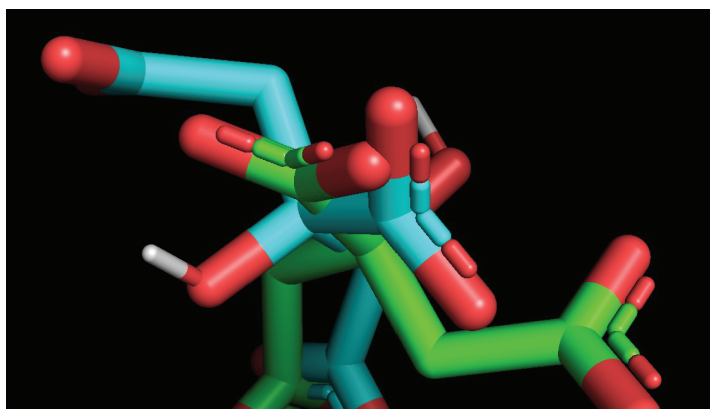
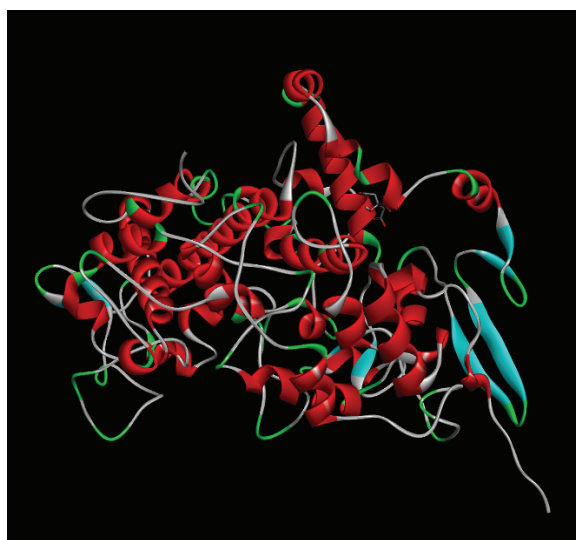
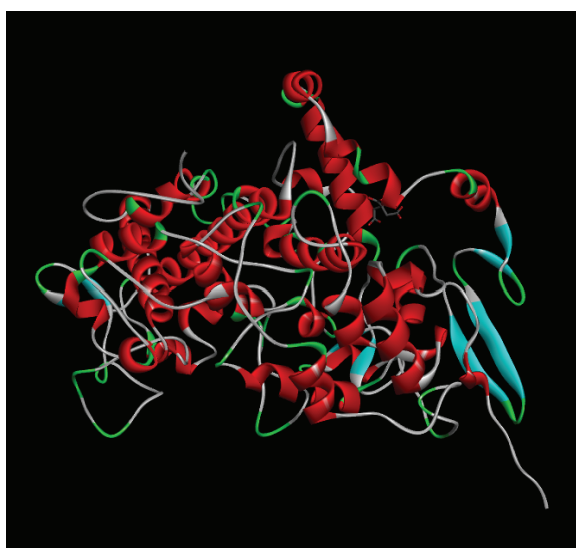


Supplementary 1.

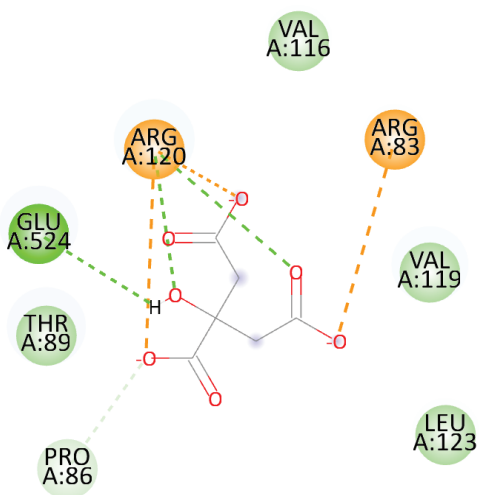
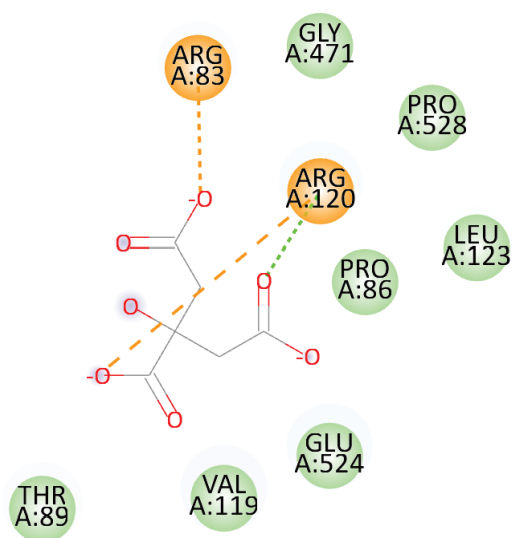


Validation of 6Y3C in PYMOL.

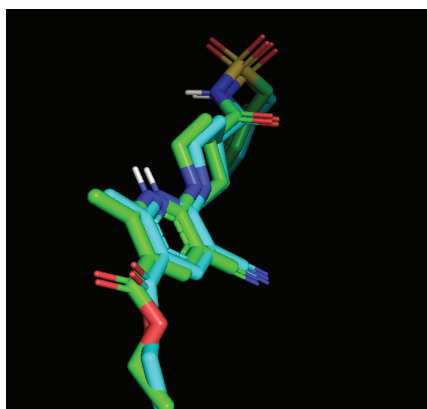
Supplementary 2.



Validation of 6Y3C in BIOVIA.

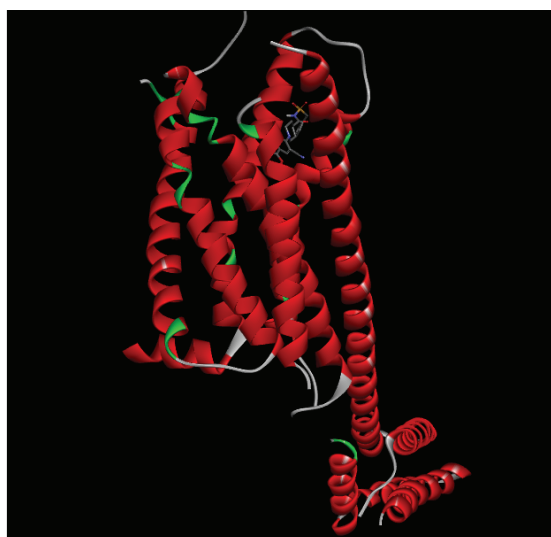


Supplementary 3.

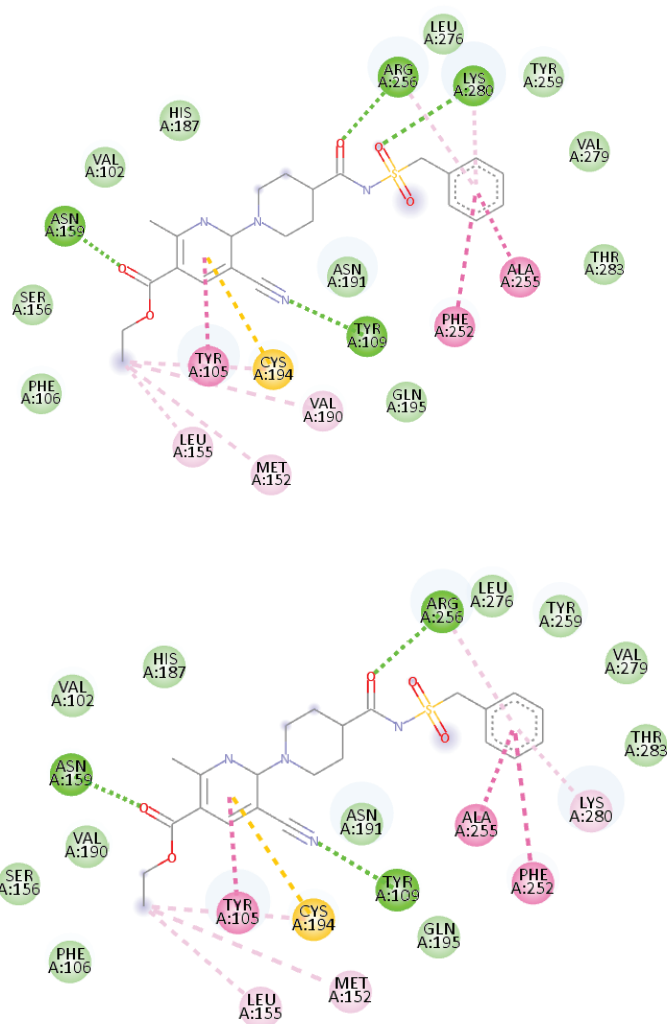


Validation of 4NTJ in PYMOL

Supplementary 4.



Validation of 4NTJ in BIOVIA.



Supplementary 5.

1. The video of the *in silico* analysis results of the interactions of arachidonic acid, aspirin, clopidogrel, prasugrel, and ticagrelor with COX-1 is attached to this link:
<https://drive.google.com/drive/folders/15UQS8MmhrZYYVSxadFGxyMoIEfy61Vvn?usp=sharing>
2. The video of the *in silico* analysis results of the interactions of ADP, aspirin, clopidogrel, prasugrel, and ticagrelor with P2Y12 is attached to this link:
https://drive.google.com/drive/folders/1PvhDhjF6H0YRKQ90oV_qsVZFcwazNF5t?usp=drive_link