

Characterizing the Structure-Activity Relationships of Natural Products, Tanshinones, Reveals their Mode of Action in Inhibiting Spleen Tyrosine Kinase

Min-Che Tung^{a#}, Keng-Chang Tsai^{bc#}, Kit-Man Fung^d, Ming-Jaw Don^b and Tien-Sheng Tseng^{e*}

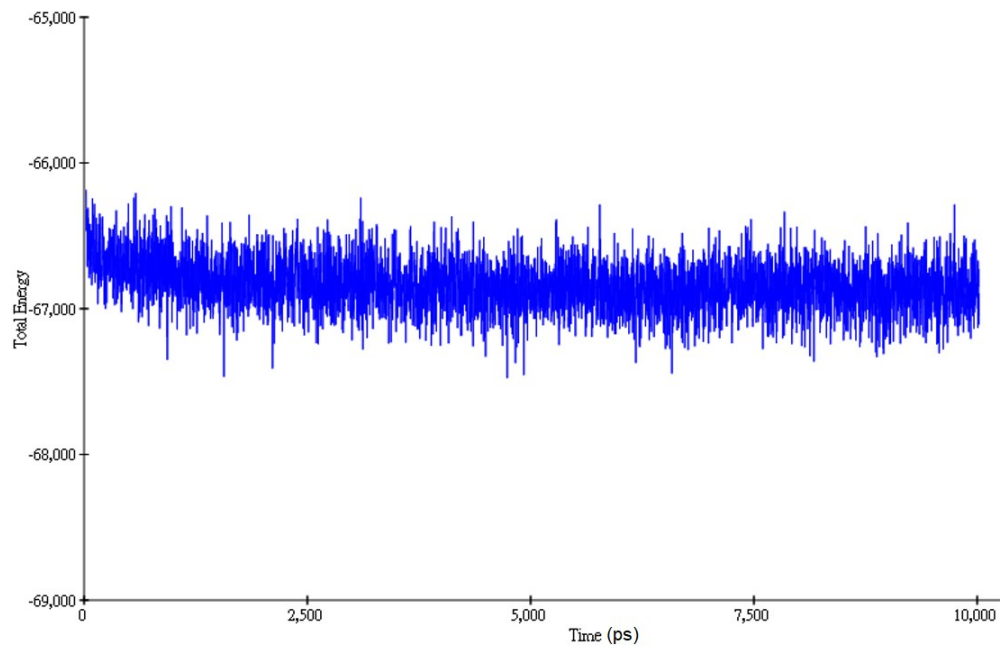
- a. Department of Stomatology, Tung's MetroHarbor Hospital, Taichung, Taiwan.
- b. National Research Institute of Chinese Medicine, Ministry of Health and Welfare, Taipei, Taiwan.
- c. Ph.D. Program in Medical Biotechnology, College of Medical Science and Technology, Taipei Medical University, Taipei, Taiwan.
- d. Institute of Biological Chemistry, Academia Sinica, Taipei 115, Taiwan.
- e. Institute of Molecular Biology, National Chung Hsing University, Taichung, Taiwan.

These authors contributed equally to this work.

* To whom correspondence should be addressed.

Supporting information

(A)



(B)

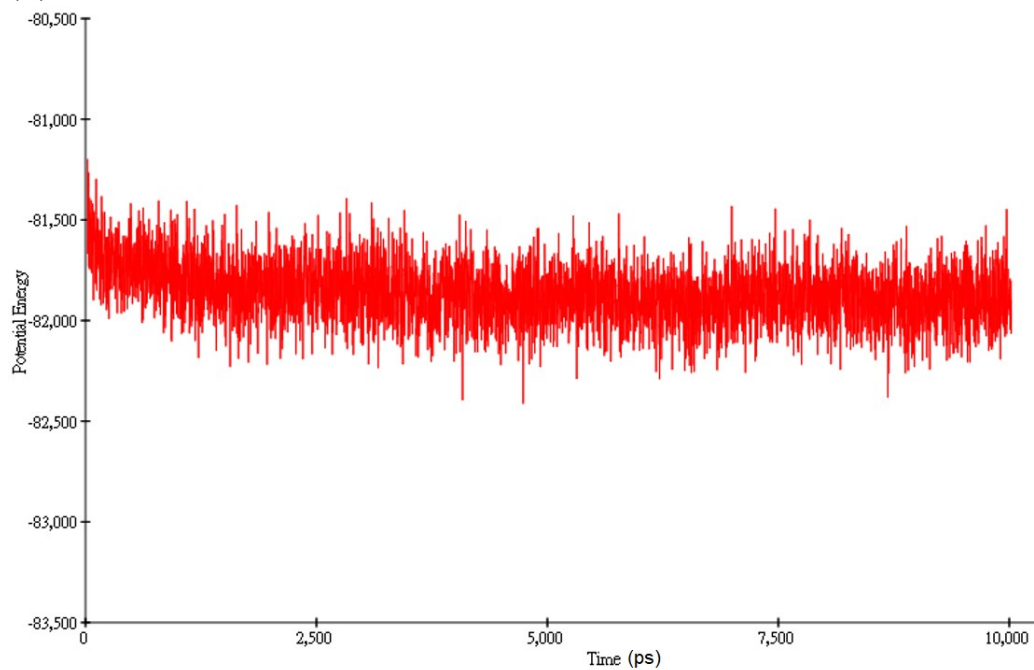
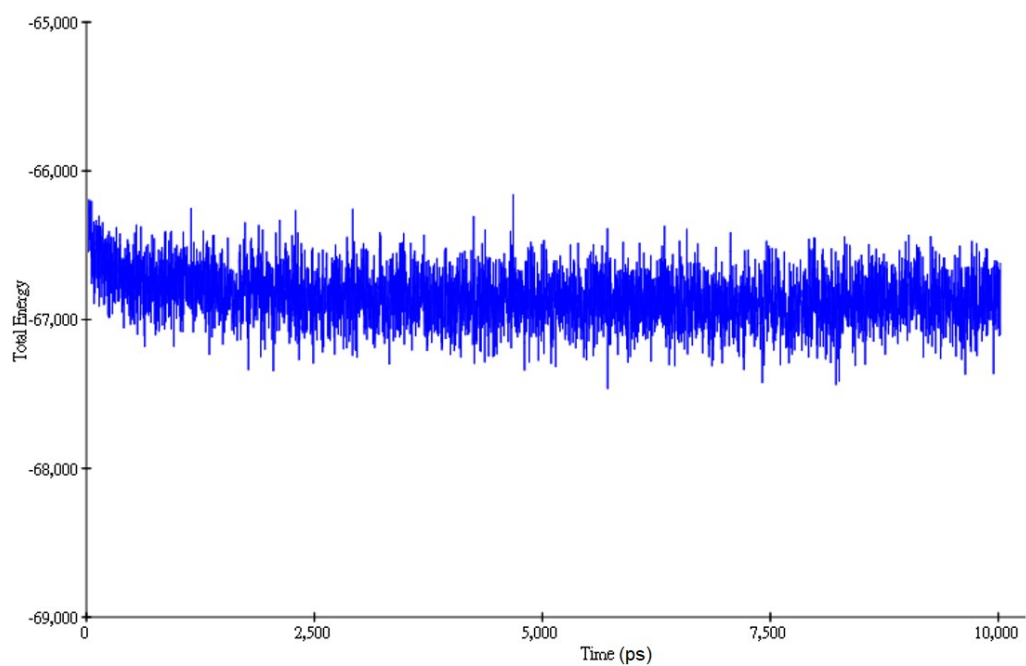


Figure S1. The molecular dynamics simulations of SYK-TanI complex for 10 ns.
(A) The total energy as a function of time (B) The potential energy as a function of time.

(A)



(B)

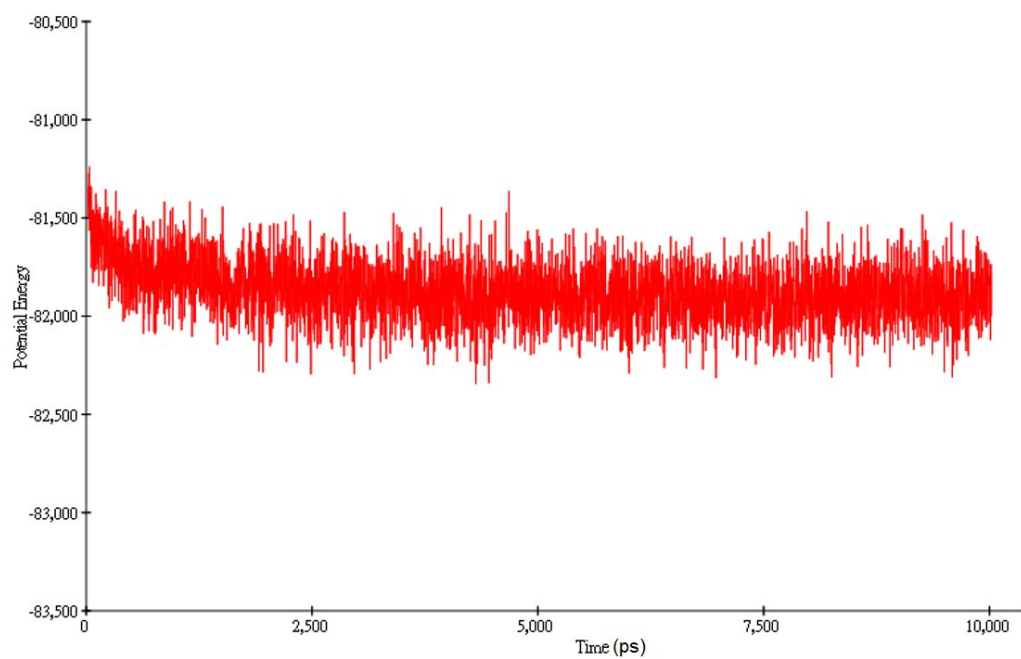
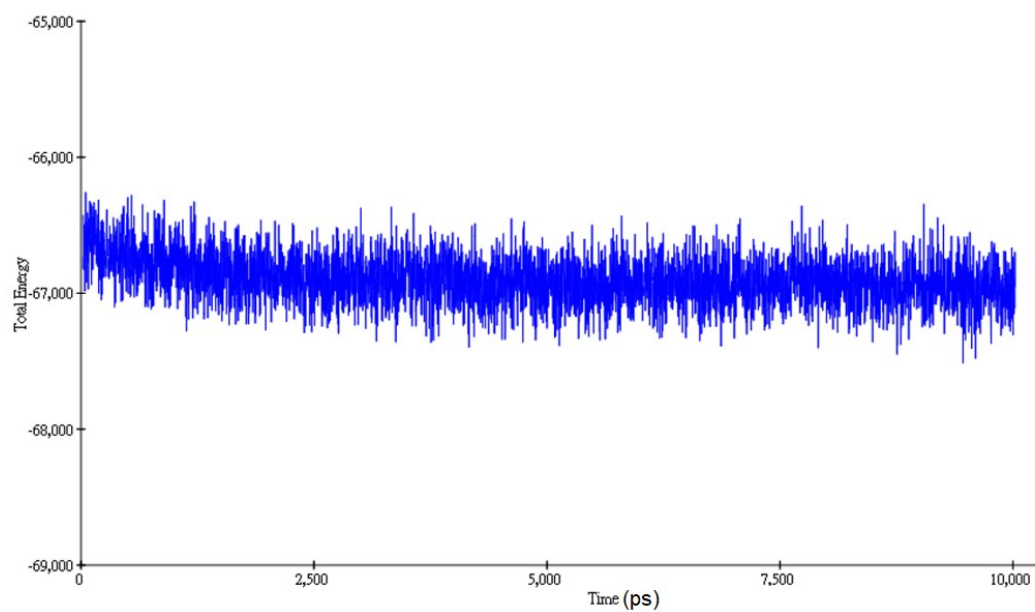


Figure S2. The molecular dynamics simulations of SYK-TanIIA complex for 10 ns. (A) The total energy as a function of time (B) The potential energy as a function of time.

(A)



(B)

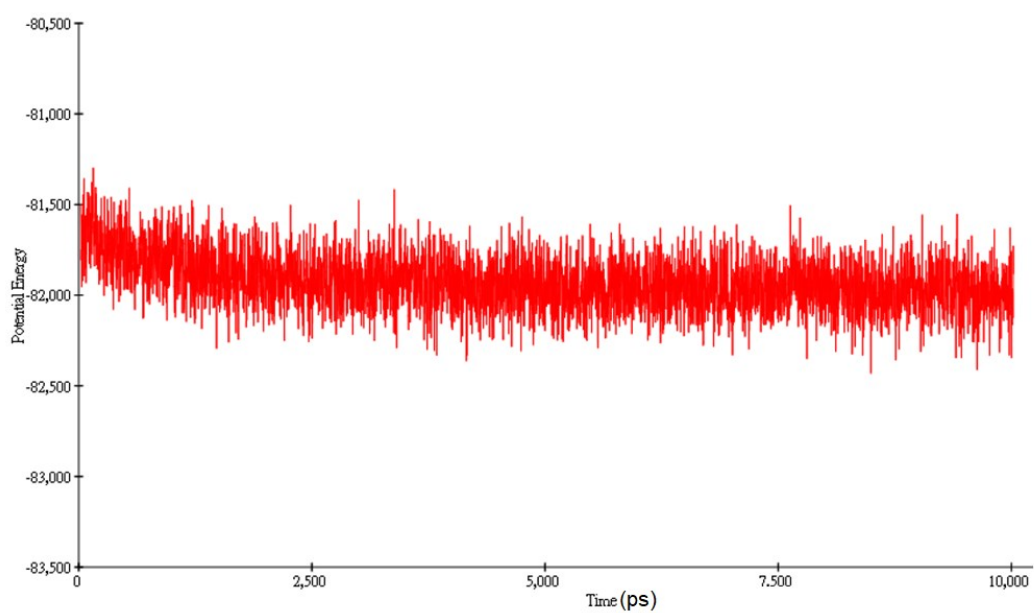
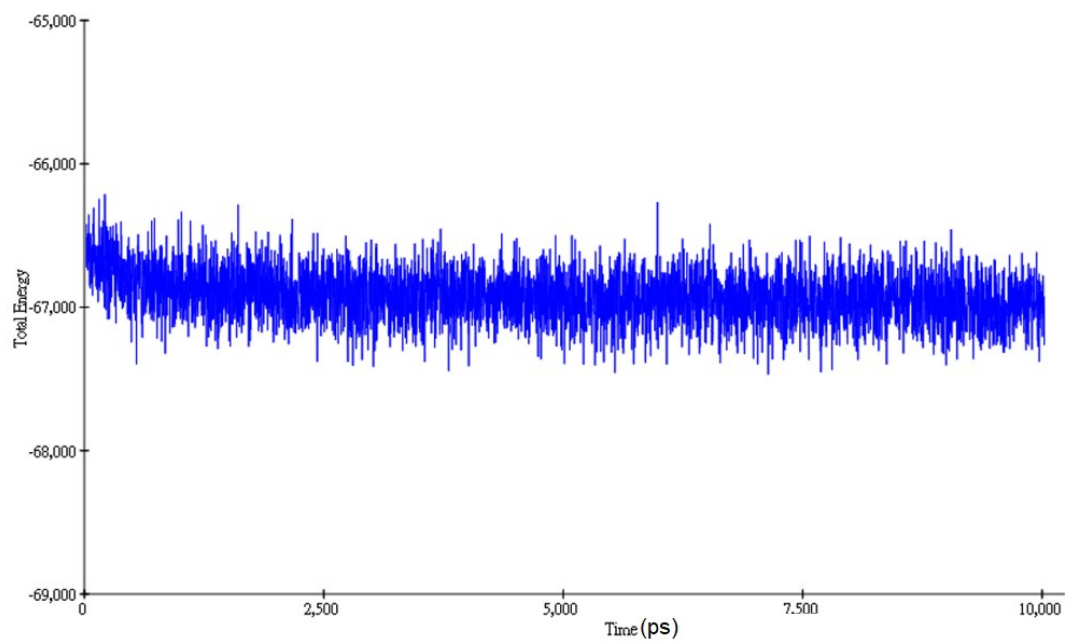


Figure S3. The molecular dynamics simulations of SYK-ST32da complex for 10 ns. (A) The total energy as a function of time (B) The potential energy as a function of time.

(A)



(B)

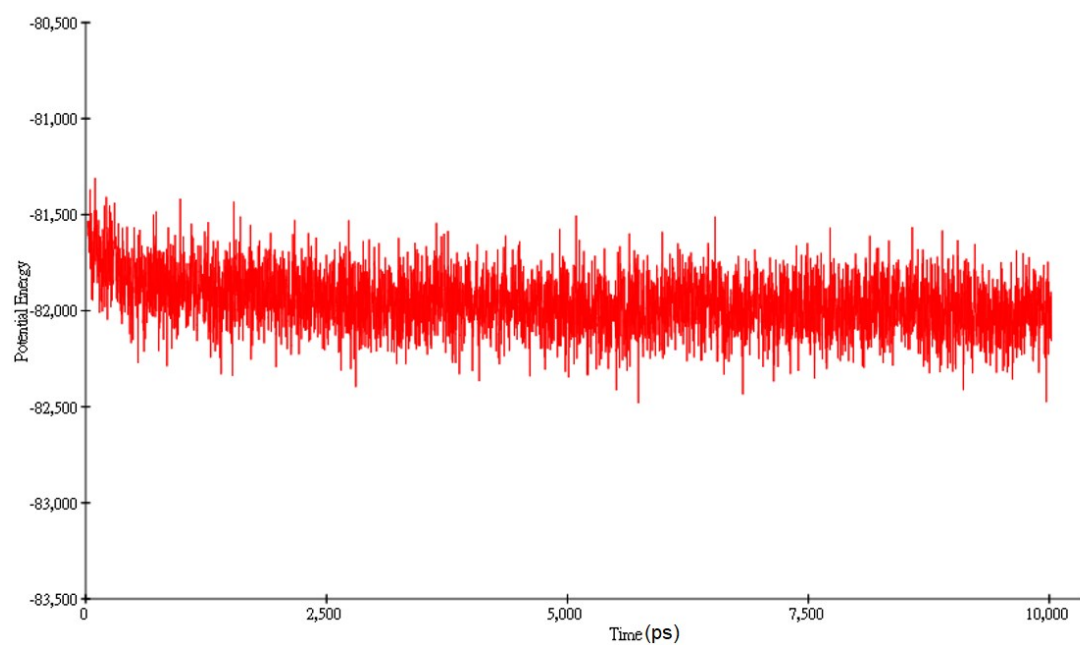
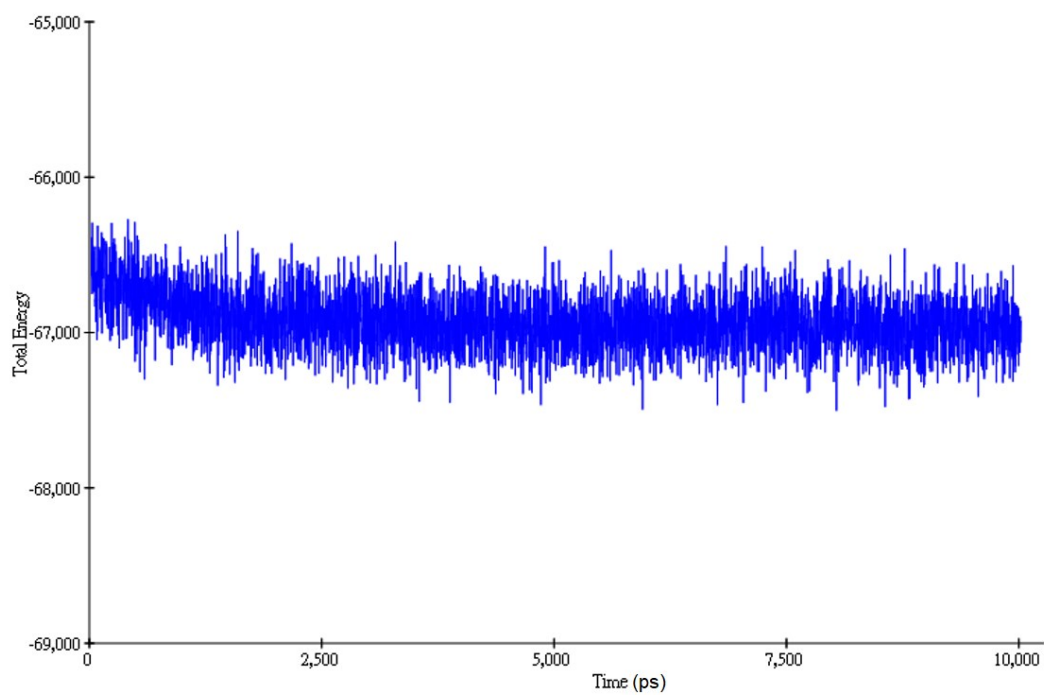


Figure S4. The molecular dynamics simulations of SYK-ST32db complex for 10 ns. (A) The total energy as a function of time (B) The potential energy as a function of time.

(A)



(B)

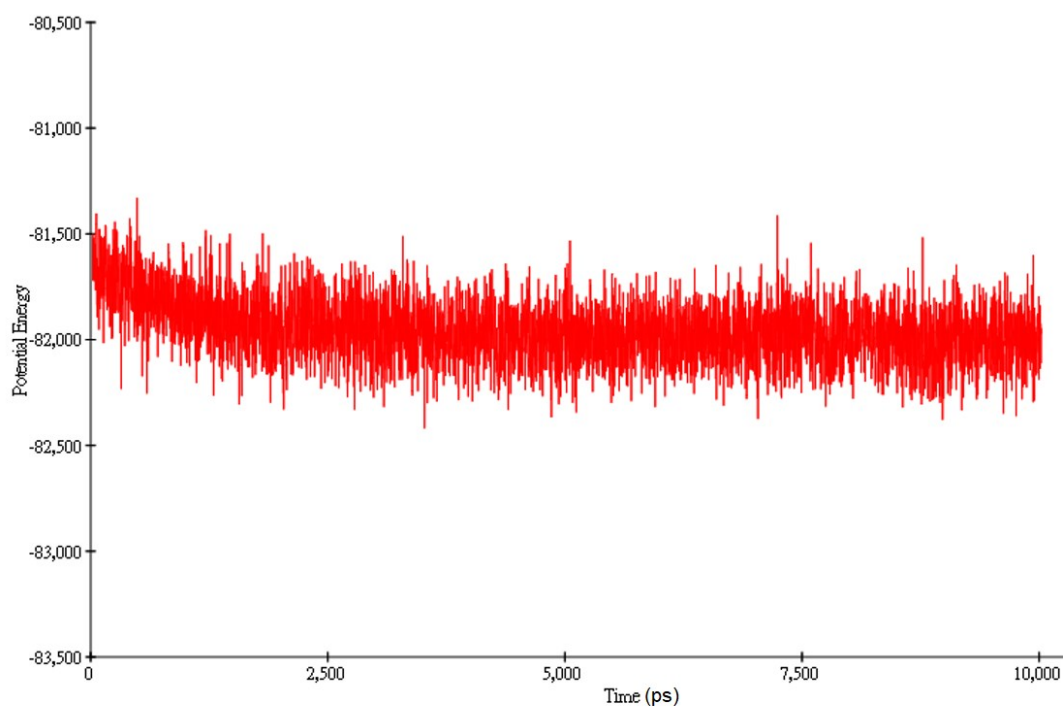
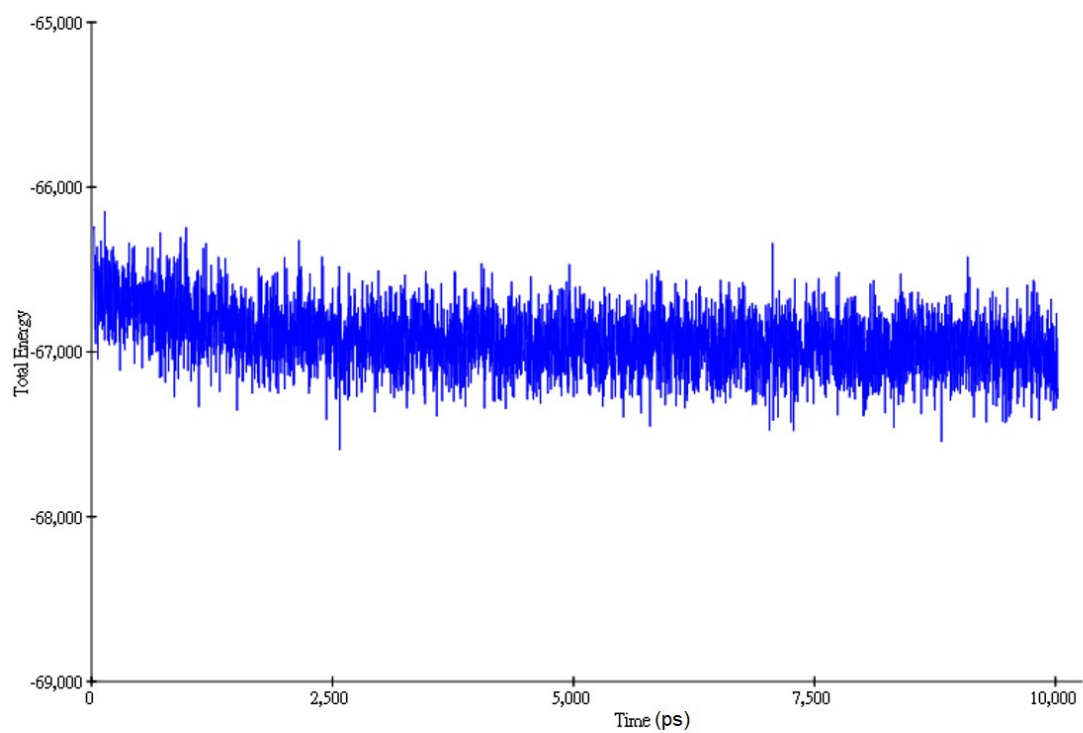


Figure S5. The molecular dynamics simulations of SYK-ST64 complex for 10 ns. (A) The total energy as a function of time (B) The potential energy as a function of time.

(A)



(B)

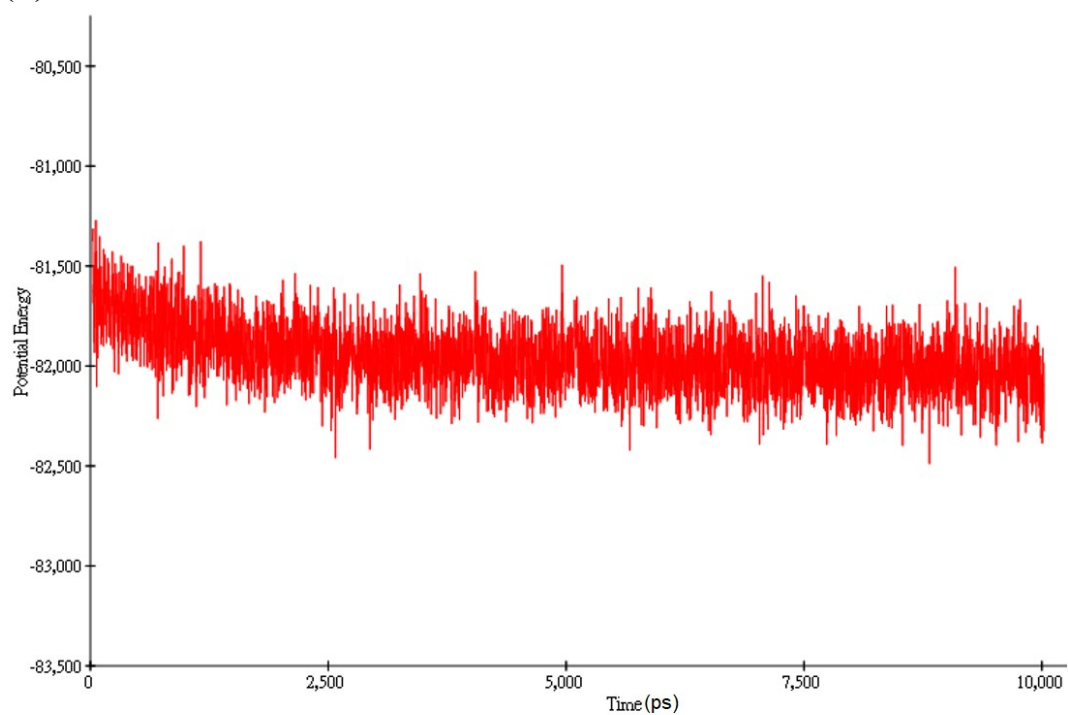


Figure S6. The molecular dynamics simulations of SYK-WST23 complex for 10 ns. (A) The total energy as a function of time (B) The potential energy as a function of time.