

Supplementary materials Huzhangoside A Suppresses Tumor Growth through Inhibition of Pyruvate Dehydrogenase Kinase Activity

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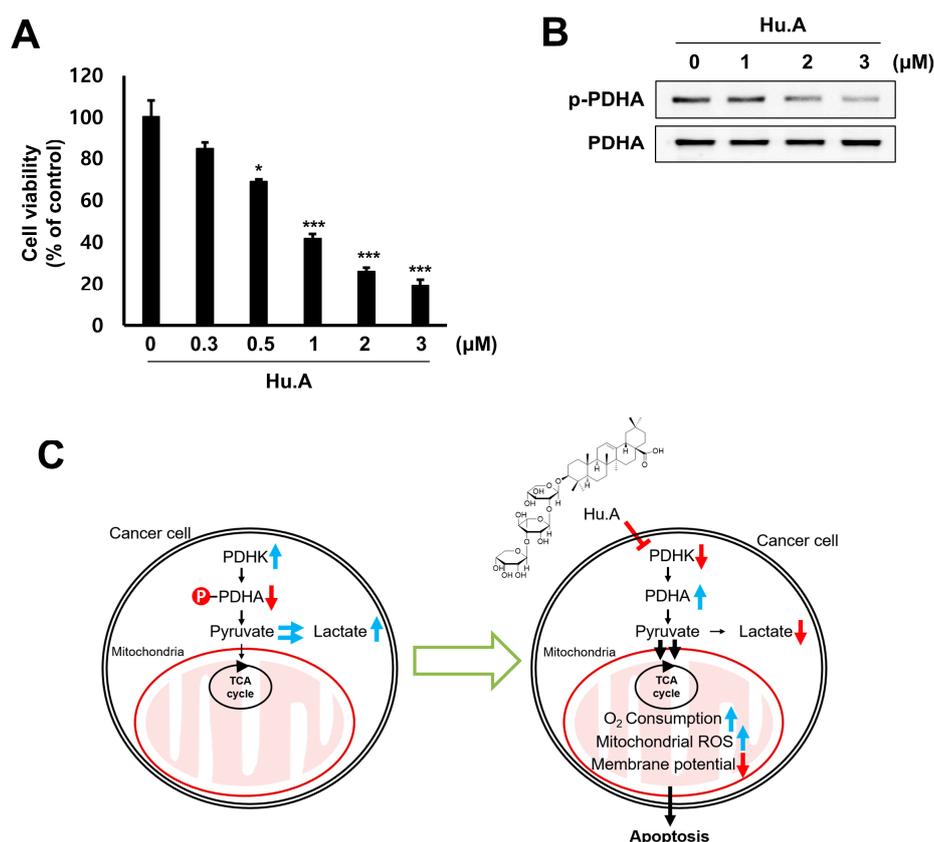


Figure S1. Hu.A inhibited cell viability and phosphorylation of PDHA in LLC cells. **(A)** The LLC cells were treated with indicated concentrations of Hu.A in serum free medium for 24 h and MTT assay was performed. The data was indicated as mean \pm SD. * $p < 0.05$ and *** $p < 0.001$ compared with the control. **(B)** In serum free condition, the LLC cells were treated with indicated concentrations of Hu.A for 4 h. The levels of phosphor-PDHA and total PDHA were analyzed by Western blotting assay. **(C)** Schematic diagram of the mechanisms of Hu.A-mediated apoptosis was shown. The red circle and white P indicated phosphates.

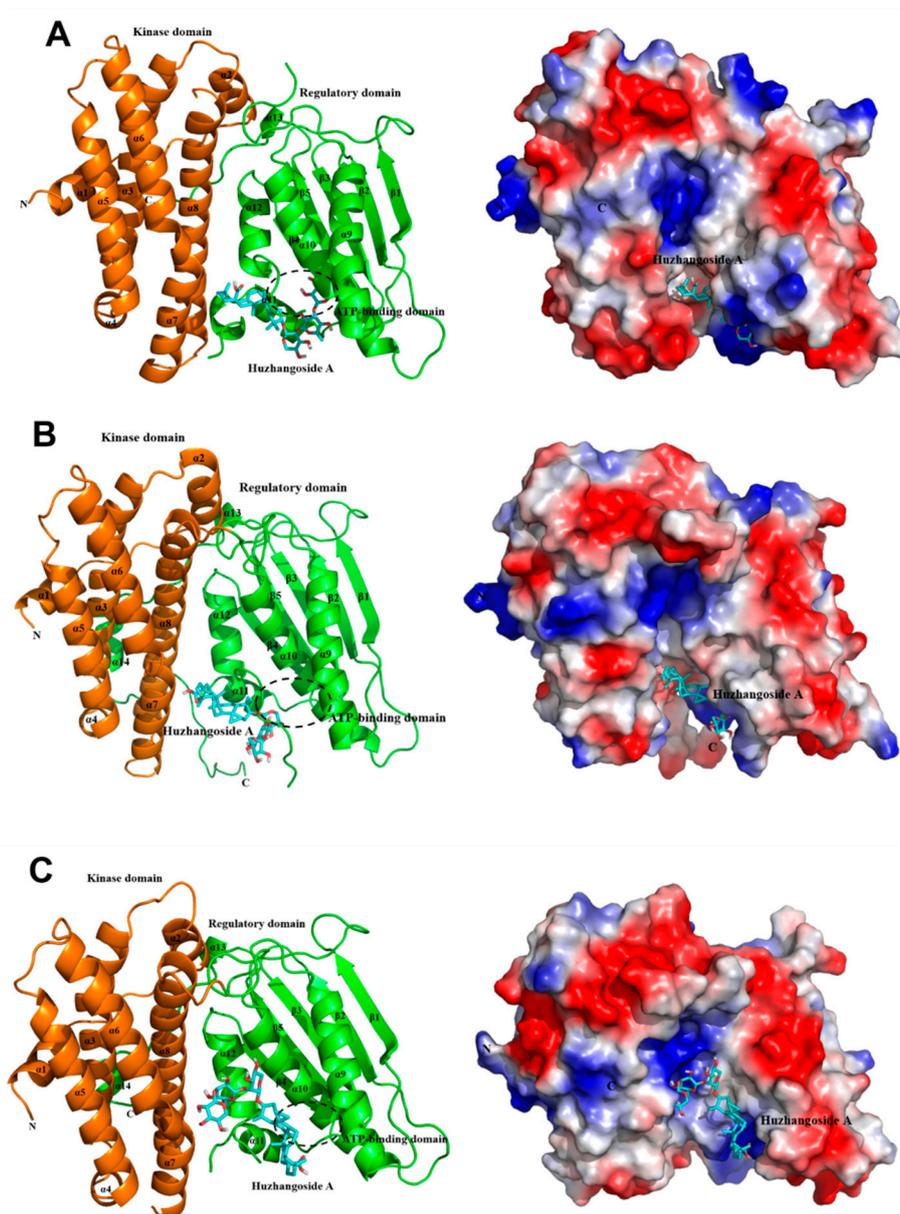


Figure S2. The interaction structures of PDHK isozymes with Hu. A are modeled. **(A)** PDHK2 (PDB ID: 5M4P) interacts with Hu. A (CID: 73347426) around the ATP-binding domain. The ribbon (left) and surface (right) representations are shown. **(B)** PDHK3 (PDB ID: 2PNR) and **(C)** PDHK4 (PDB ID: 2ZDX). The relative distribution of the electrostatic surface of PDHK isozyme is shown with the acidic region in red, basic region in blue and neutral region in white.



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