

A Coumarin–Imidazothiadiazole Derivative, SP11 Abrogates Tumor Growth by Targeting HSP90 and Its Client Proteins

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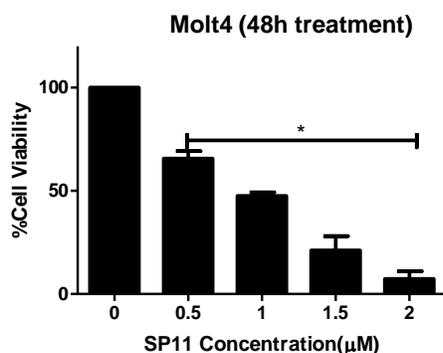
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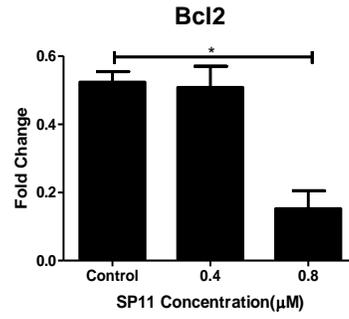
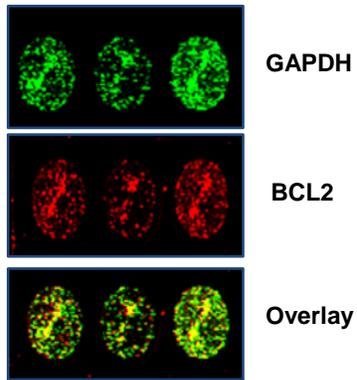
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Supplementary Figure S1: Evaluation of Molt4 cell viability after SP11 treatment as tested by LDH assay. Data from 3 different biological replicates were collected for all experiments and were presented as bar graphs using Graph Pad prism tool. Two-way ANOVA followed by Tukey’s multiple comparison test was carried out and significance is represented as ***pvalue <0.001, **pvalue < 0.01, *pvalue <=0.05, ns=nonsignificant.

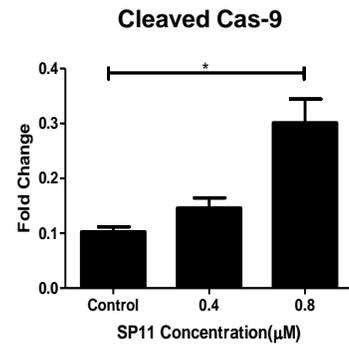
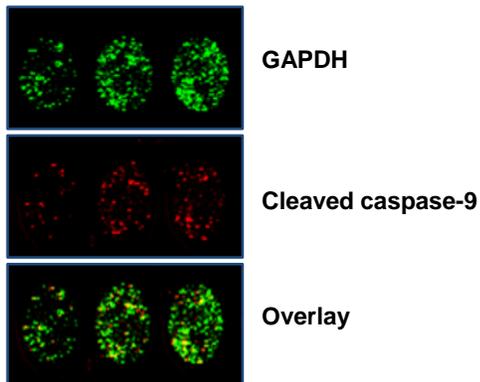


Supplementary Figure S2: In Cell western(ICW) images for Bcl2(A), Cleaved caspase-9(B) and Bax(C) in Molt4 cells after SP11 treatment. (D) Background control image of ICW.

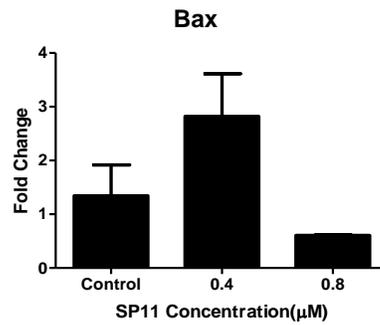
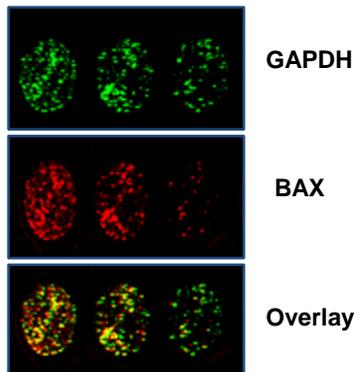
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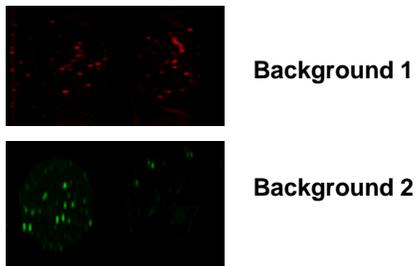
B



C

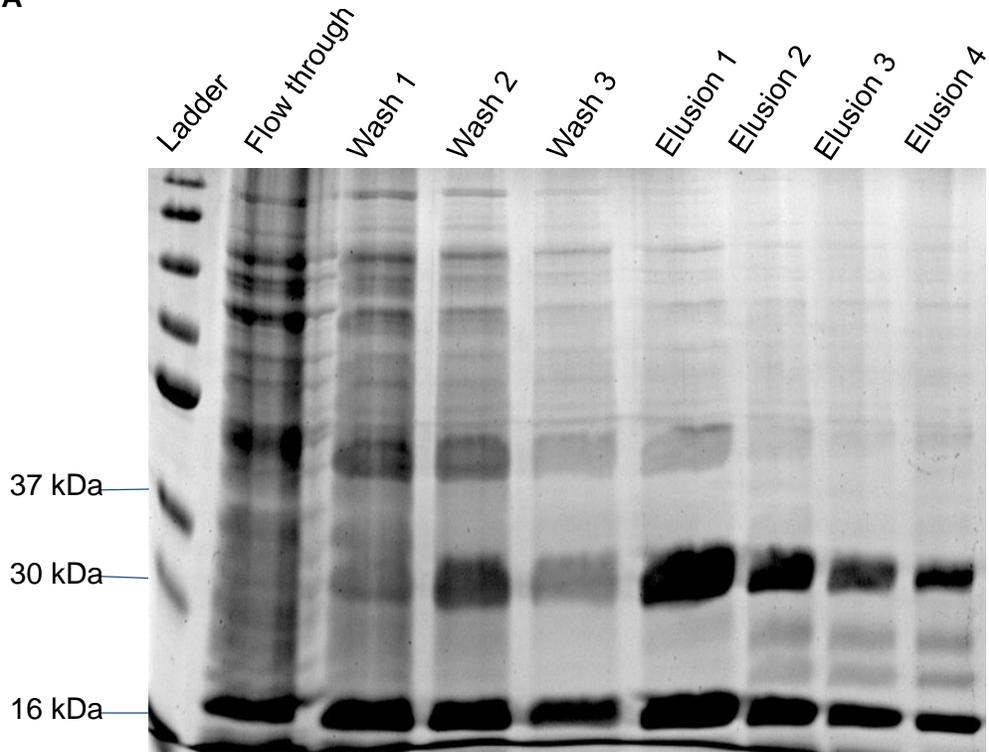


D

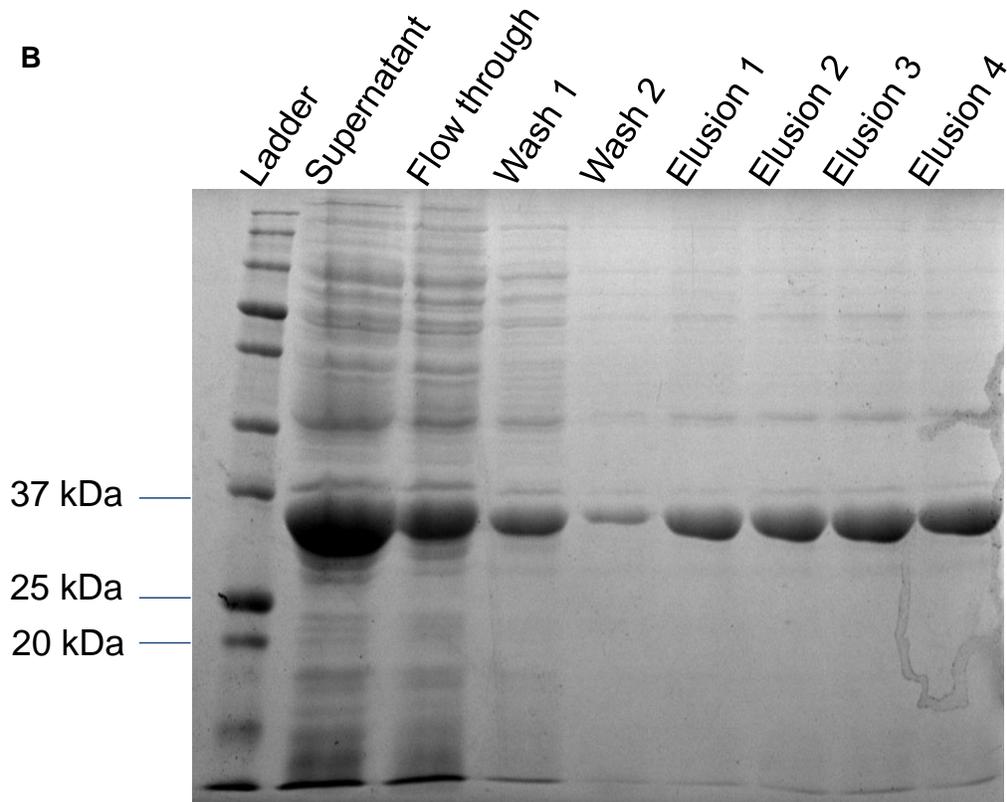


Supplementary Figure S3: (A) HSP90 CTD purification using Ni-NTA method. Wash 1,2 contains 50mM imidazole and wash 3,4 contains 100mM imidazole. Elution 1, elution 2 contains 400mM imidazole and elution 3 and 4 contains 1M imidazole.(B) HSP90 NTD purification using Ni-NTA method. Wash 1 contains 20mM imidazole and wash 2 contains 50mM imidazole. Elution 1 contains 200mM imidazole and elution 2 contains 500mM imidazole.

A



B



Supplementary Figure S4: Thermodynamic binding profile for protein domain- ligand interaction

