

Supplementary information

Facile exfoliation of MoS₂ nanosheets by protein as a photothermal-triggered drug delivery system for synergistic tumor therapy†

Rui Deng ^{a‡}, Hai Yi ^{a‡}, Fangyi Fan ^a, Li Fu ^a, Yan Zeng ^a, Yi Wang ^a, Yecheng Li ^a,
Yilan Liu ^a, Shengjun Ji ^b, and Yi Su ^{a*}

^a Hematology Department and Hematopoietic Stem Cell Transplantation and Cell Immunotherapy Center, Cheng Du Military General Hospital of PLA, Cheng Du, Sichuan 610083, China.

^b Urology Department, Cheng Du Military General Hospital of PLA, Cheng Du, Sichuan 610083, China.

*Correspondence: Yi Su

E-mail: yisu0109@sina.com; Tel: +86-028-86570701

† Electronic supplementary information (ESI) available

‡ These authors contributed equally to this paper

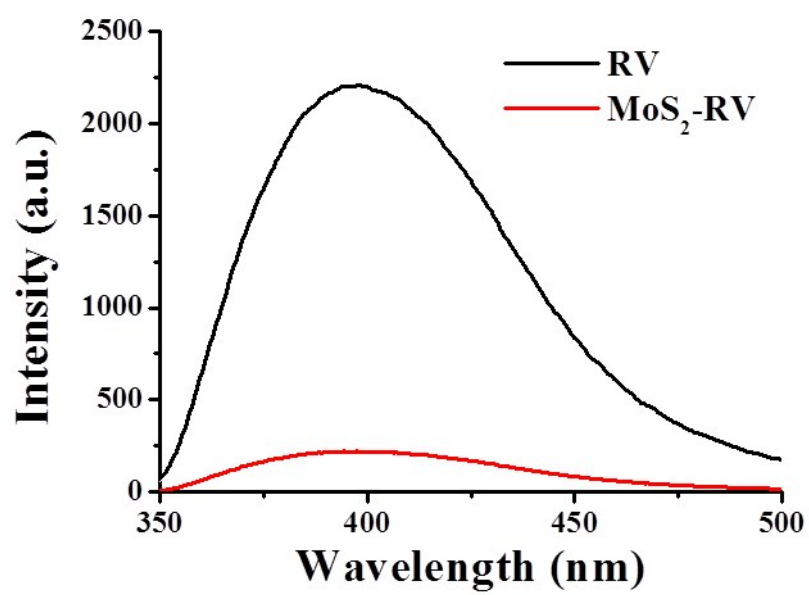


Figure S1 The fluorescence spectra of free RV and MoS₂-RV.

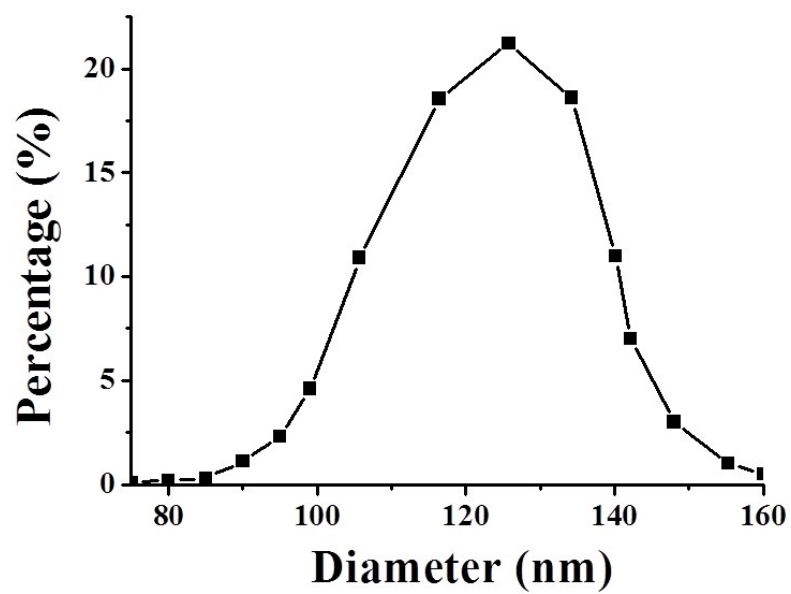


Figure S2 The size distribution of MoS₂-RV.

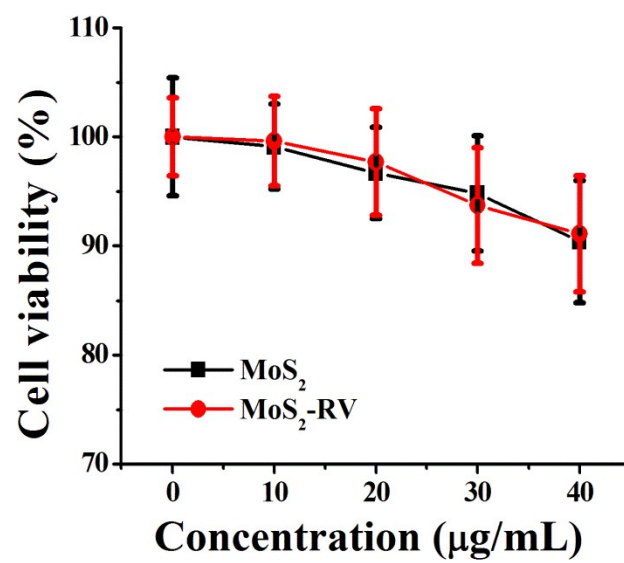


Figure S3 The in vitro cytotoxicity of MoS₂ and MoS₂-RV on bone marrow cells.

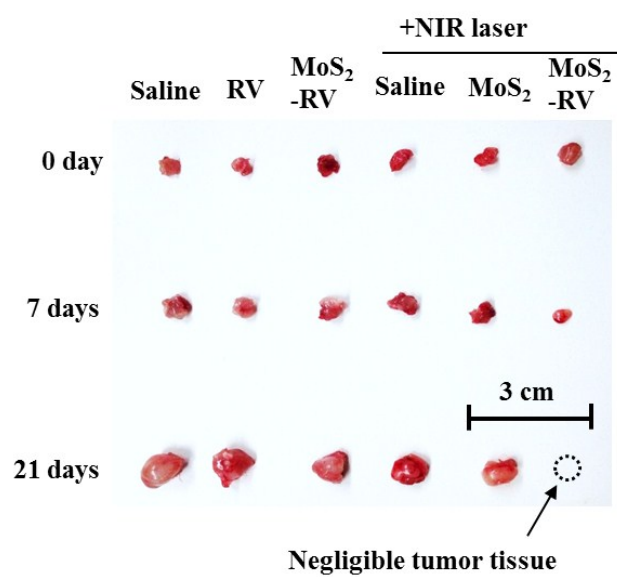


Figure S4 Tumor appearance of the tumor bearing mice before and after 7 and 21 days' treatment.

Table S1 Blood cell count of peripheral blood cells including WBC, RBC and platelets.

	<i>MoS₂</i>			<i>MoS₂-RV</i>		
	<i>Control</i>	<i>7 days</i>	<i>21 days</i>	<i>Control</i>	<i>7 days</i>	<i>21 days</i>
<i>WBC</i> ($10^9/L$)	8.01±5.9	7.59±6.9	8.14±5.1	7.87±5.7	7.66±3.8	7.42±4.5
<i>RBC</i> ($10^{12}/L$)	4.85±1.8	5.01±2.3	4.91±1.9	4.71±1.4	4.51±2.1	4.38±1.7
<i>Platelets</i> ($10^9/L$)	250±54	241±46	254±61	242±65	239±51	250±58

WBC, White blood cells; RBC, Red blood cells.