

Mono-PEGylated Thermostable *Bacillus caldovelox* Arginase Mutant (BCA-M-PEG20) Induces Apoptosis, Autophagy, Cell Cycle Arrest and Growth Inhibition in Gastric Cancer Cells

Investigational New Drugs

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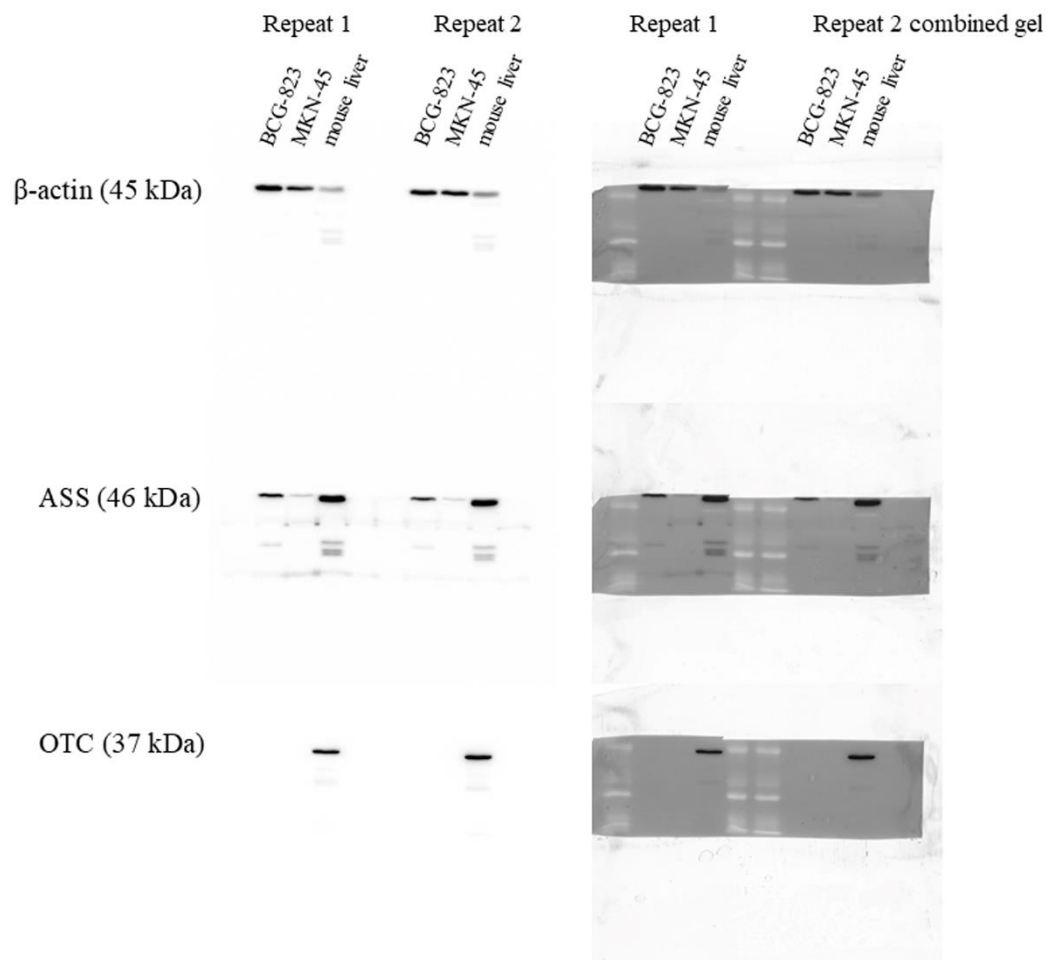
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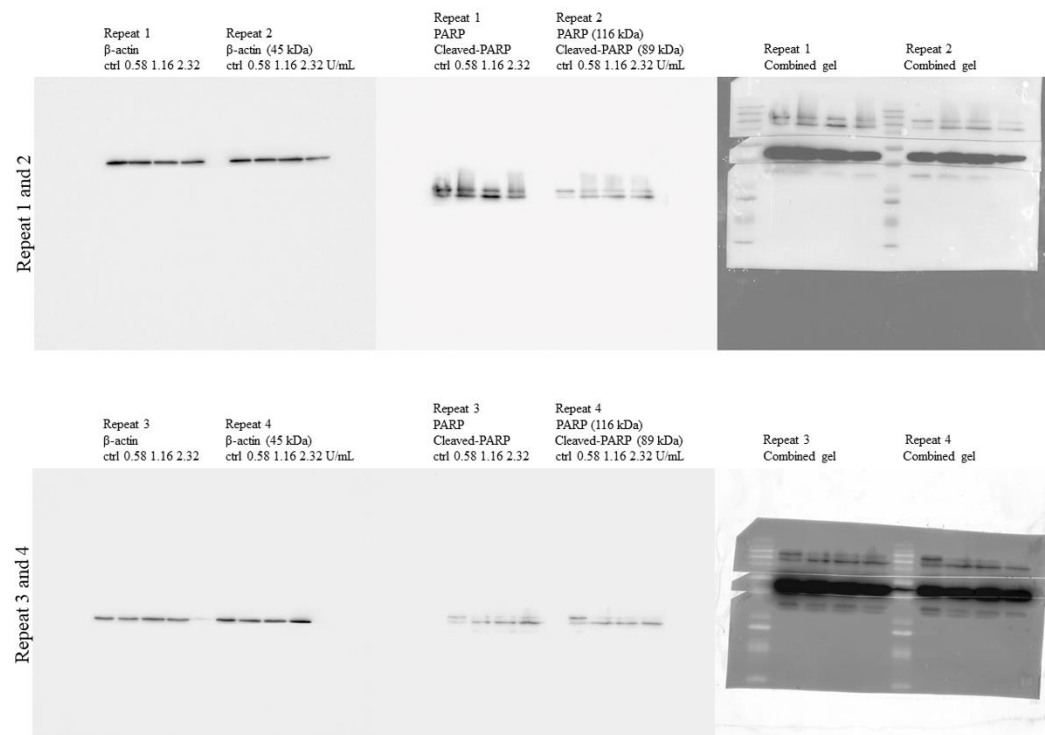
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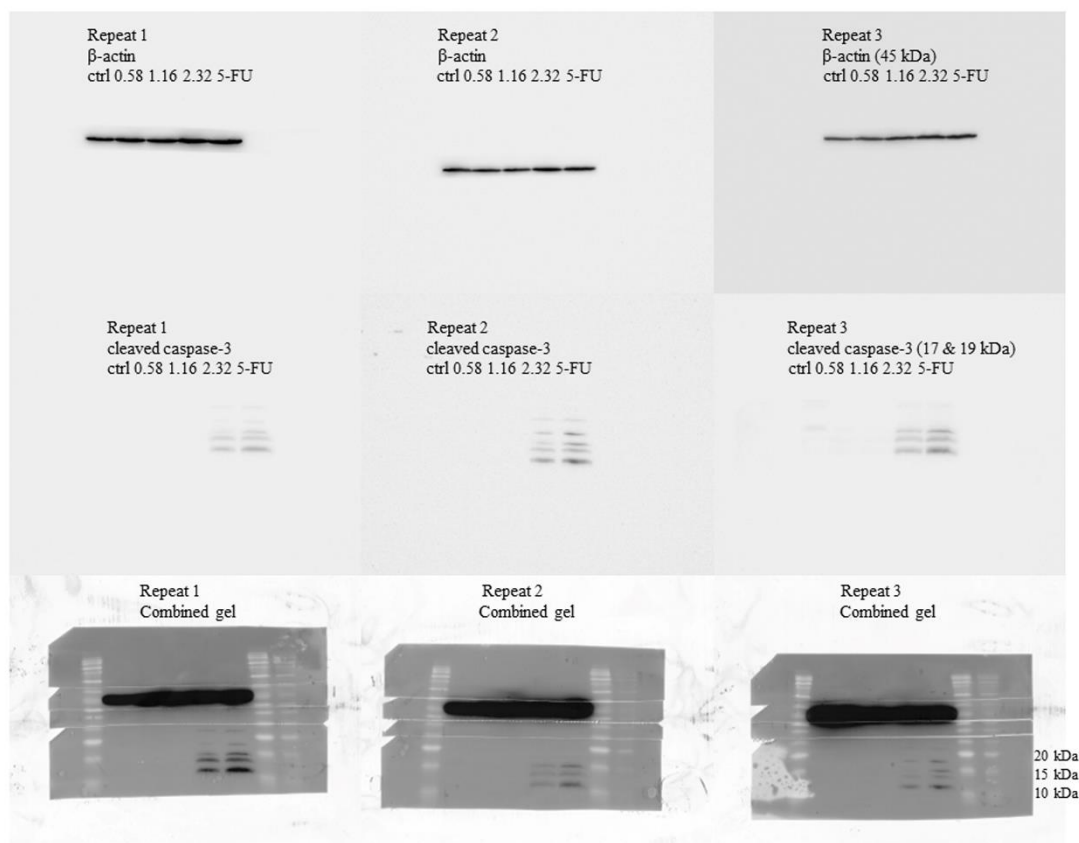
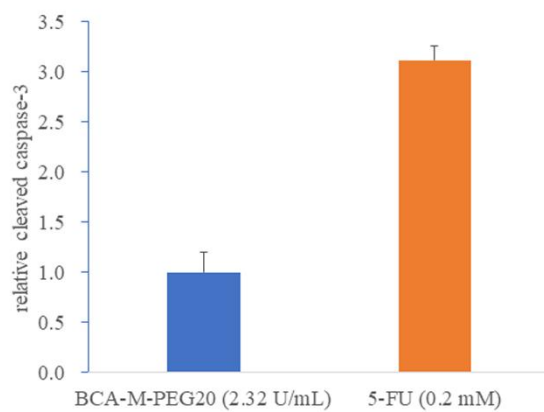
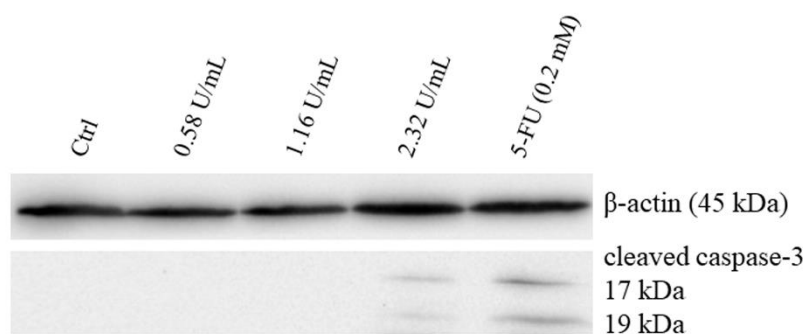
Sai-Fung Chung and Suet-Ying Tam contributed equally to this work.



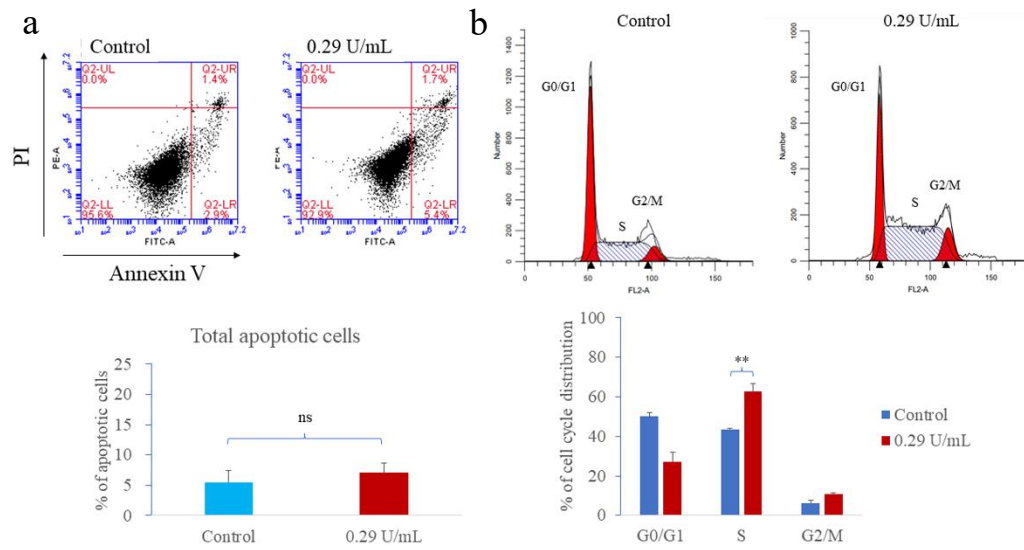
Supplementary Fig. 1 The protein expression of β -actin, ASS and OTC were measured by western blot analysis in MKN-45 and BGC-823. Mouse liver served as an OTC positive control.



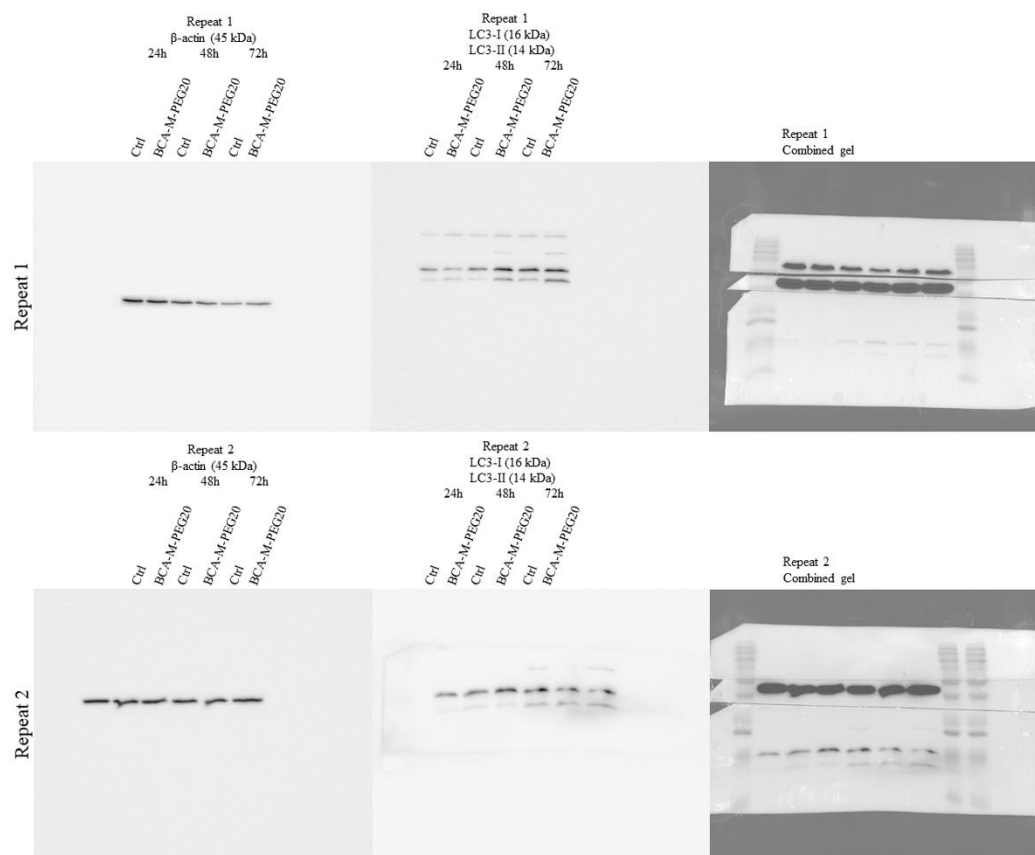
Supplementary Fig. 2 Western blot analysis of cleaved-PARP level after treatment of BCA-M-PEG20.



Supplementary Fig. 3 Western blot analysis of cleaved caspase-3 level after treatment of BCA-M-PEG20 and 5-FU.



Supplementary Fig. 4 BCA-M-PEG20 with 0.29 U/mL (a) did not induce apoptosis but induced S phase arrest significantly in MKN-45 cells after 72 h of incubation.



Supplementary Fig. 5 Western blot analysis of LC3-I and LC3-II level after treatment of BCA-M-PEG20.