pharmaceutics

Supplementary Materials: Mechanisms of a *Mycobacterium tuberculosis* Active Peptide

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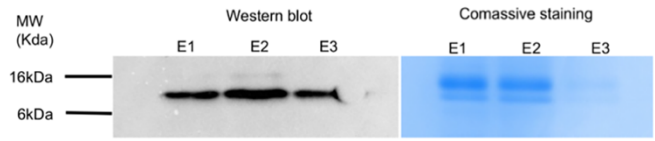
Table S1. Antibiotic resistance profile of the clinical MDR isolate.

Antibiotic	Sensitive (S) or Resistant (R)
Linezolid	S
Kanamycin	S
Amikacin	S
Ofloxacin	S
Moxifloxacin	S
Rifampicin	R
PAS	S
Ethambutol	S
Ethionamide	S
Capreomycin	S
Isoniazid	R
Pyrazinamide	S

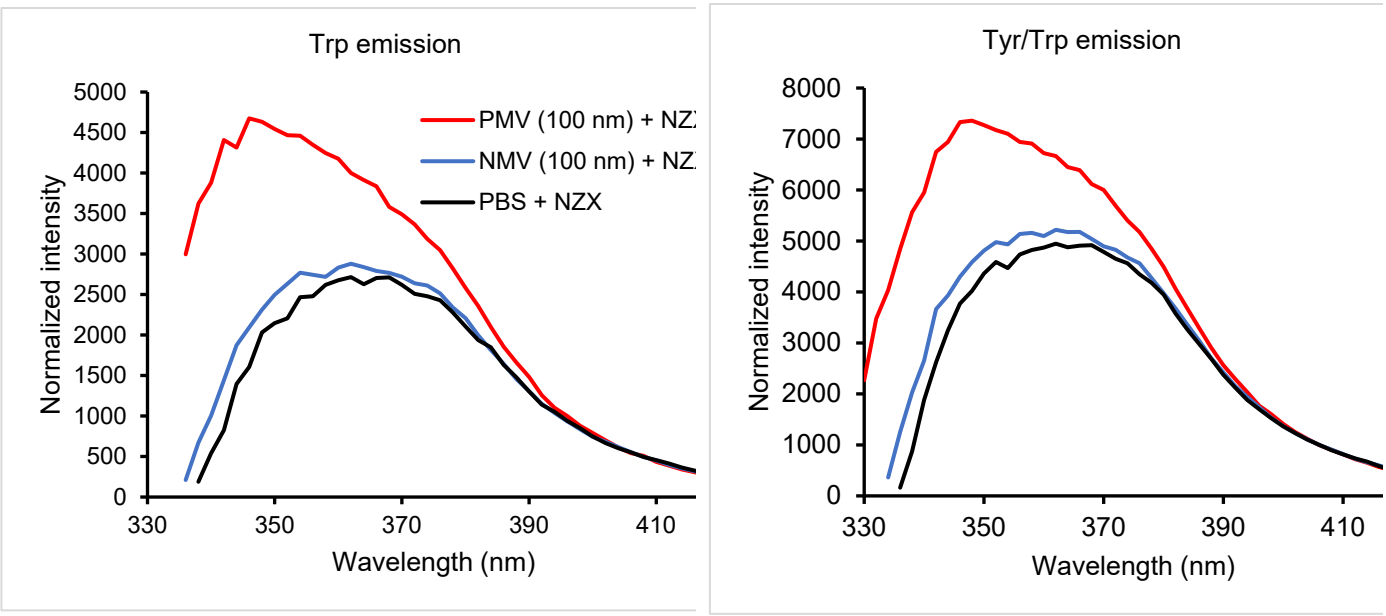
A



B

Annotated Sequence	Molecular weight	Experimental weight
MHHHHHHENLYFQGGFGcNGPWSEDDIQcHNHcK	4222.7	4222.7
mHHHHHHENLYFQGGFGcNGPWSEDDIQcHNHcK	4238.7	4238.7
SIKGYKGGYcAR	1359.7	1359.7
GGFVcKcY	990.4	990.4

Figure S1. Confirmation of recombinant NZX. (**A**) NZX protein bands observed via western blot and commissive staining obtained from *E. coli* BL21 lysate. One distinct protein band was detected in the first three elution samples detected by western blot using anti-his secondary antibody. A band at the same molecular weight was seen for commissive staining. (**B**) Identity of NZX was confirmed by mass spectrometry from a pooled sample (elution1, 2 and 3).



(A) **(B)**

Figure S2. The non-normalized spectra of intrinsic Trp (**A**) Trp + Tyr (**B**) and emission spectra of the peptide when interacting with the LUV at pH 7.4.

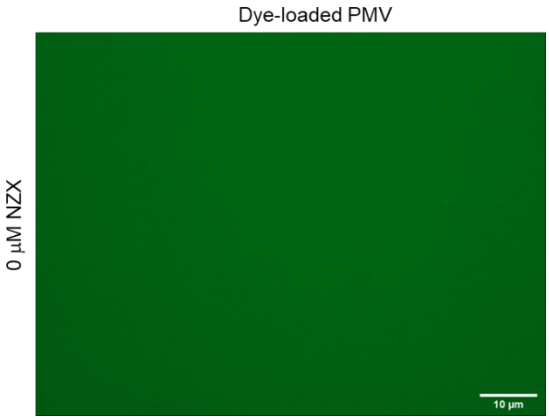


Figure S3. A control image with liposomes without the peptide.