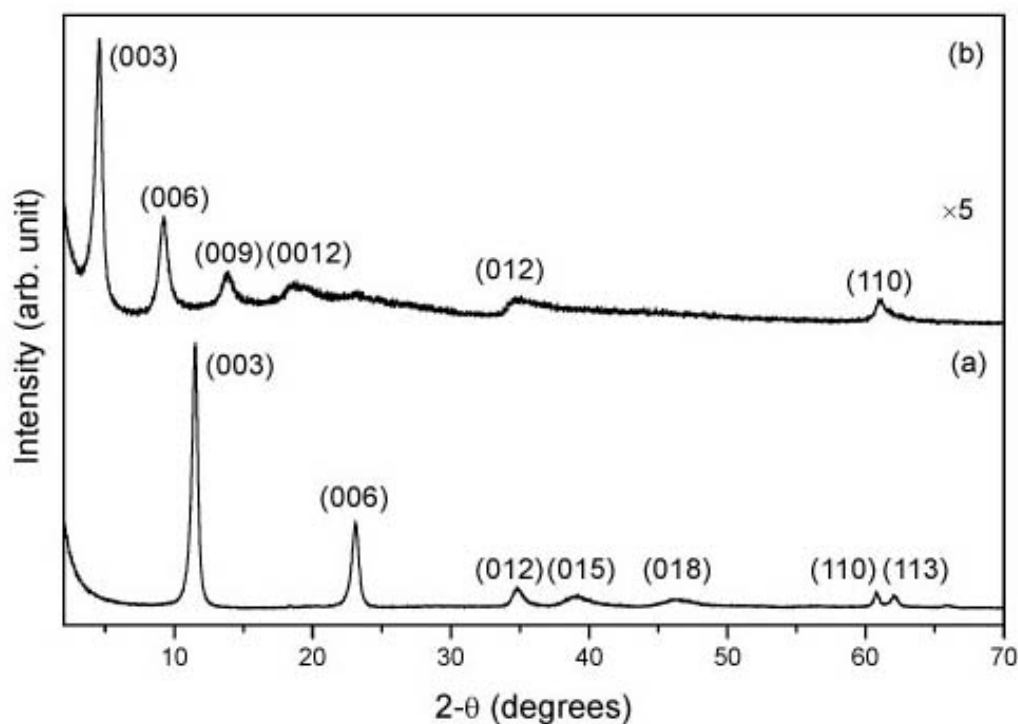


## Anticancer drug encapsulated in inorganic lattice can overcome drug resistance

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### Supporting information



Supporting Figure 1. X-ray diffraction pattern of (a) pristine LDH and (b) MTX-LDH. The intensity of pattern (b) was multiplied by  $\times 5$  for the comparison with (a)

As shown in the powder X-ray diffraction pattern in supporting fig. 1, both pristine LDH having  $\text{Cl}^-$  ions and MTX-LDH represent well-developed (00 $l$ ) peaks, revealing the 2-dimensional structure. The (003) peak appeared at  $2\theta \sim 11.35^\circ$  and  $4.45^\circ$  for MTX-LDH and pristine LDH, respectively, and the values correspond to the d-spacing of 0.78 and 1.99 nm.