

Figure 1: Gel filtration trace and SDS-PAGE. A) Annotated SEC trace showing YloC elutes in a symmetric peak at the expected elution volume for a hexamer. B) SDS-PAGE gel comparing pre-FPLC samples and the post-FPLC peak fraction.

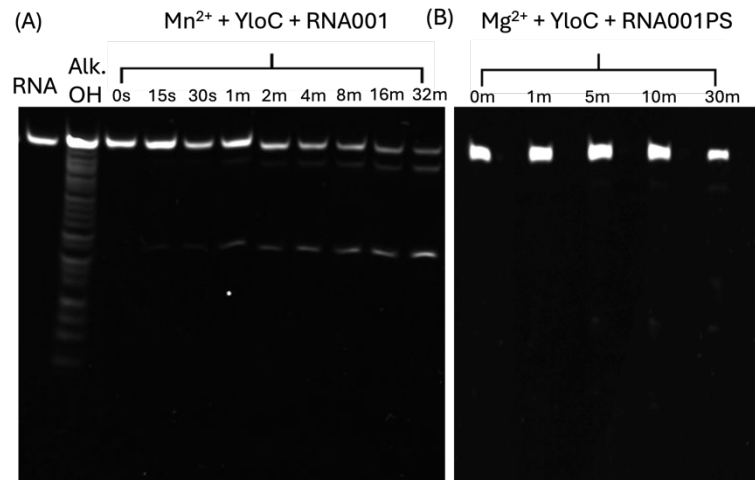


Figure 2: Representative nuclease assays. A) $Mn^{2+}/YloC + RNA001$ shows a preference for the smaller product. B) $Mg^{2+}/YloC + RNA001PS$ (phosphorothioate) abrogates cleavage.

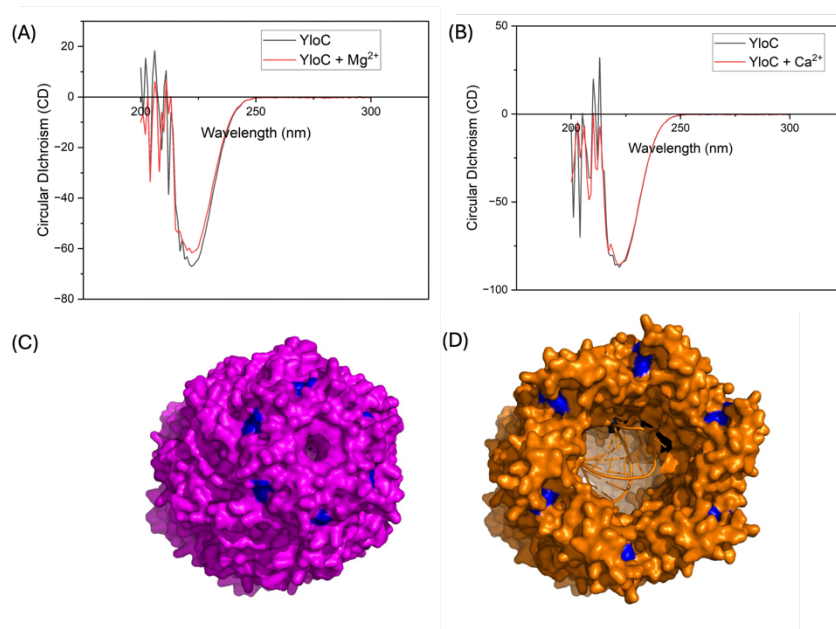


Figure 3: Divalent cations alter YloC structure. CD spectra of A) YloC and YloC + Mg^{2+} and B) YloC and YloC + Ca^{2+} . Top alphafold models for YloC/RNA and A) Mg^{2+} or B) Ca^{2+} .