Supplementary Materials: Sequence, Structure and Binding Site Analysis of Kirkiin in Comparison with Ricin and Other type 2 RIPs

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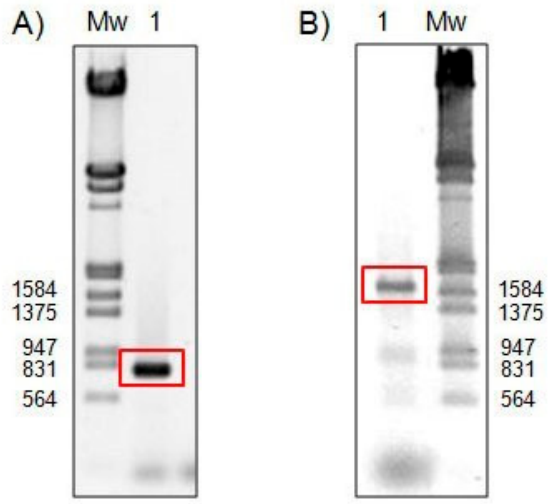

Figure S1. Amplification of kirkiin A-chain with part of the B-chain (A, lane 1), and the entire sequence (B, lane 1). Mw: λ Hind III/EcoRI double digest DNA marker. The red squares indicate the amplification products.

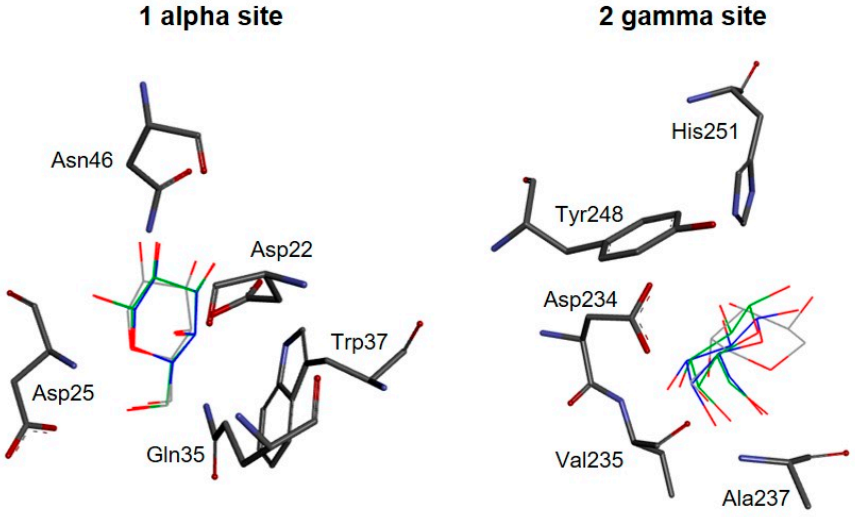

Figure S2. Comparison of the three-dimensional models of ricin (PDB 2AAI) sugar-binding sites 1 alpha (left) and 2 gamma (right) bound to D-galactose. The results obtained using AutoDock 4.2 with either β-D-galactopyranose (green lines, PubChem CID 439353) and β-lactose (blue lines, PubChem CID 6134) are compared with those obtained by X-ray diffraction (grey lines) as reported previously [48]. The amino acids of the sugar-binding sites are represented by sticks. In the case of β-lactose, only the galactose part is represented.