

## SUPPLEMENTARY MATERIALS

**Table S1. Docking of bleomycin sulfate to fibronectin 1 (FN1) and Serpin B5**

Protein	Docking score	XP score	Glide energy	Hydrogen bond	Hydrophobic interactions
FN1 (fragment)	-7.521	-8.506	-106.4	Ile1333, Asp1334, Glu1364, Gln1412, Gln1413, Ser1414	Phe1335, Ile1338, Glu1392, Val1394, Leu1408, Ile1410, Gly1411, Thr1415
Serpin B5 (Site 1)	-8.111	-9.851	-141.7	Lys47, Asp49, Thr50, Thr301, Asp303, Ser305, Ser308, Thr310, Gly312	Gly48, Ser101, Glu103, His295, Phe304, Glu309, Lys311, Val313
Serpin B5 (Site 2)	-6.263	-7.248	-93.4	Lys181, Glu201, Lys270, Ser272	Glu177, Ser178, Glu179, Thr180, Asn199, Lys268, Lys275, Glu328, Glu347

**Figure S1.** The Ligplots showing the potential binding interactions of bleomycin sulfate at the interaction site between FN1 and aggrecan core protein (A), the NAG-binding site of Serpin B5 (B), and the protease binding site of Serpin B5 (C), respectively.

