b) **Start of dialysis at equilibrium**

a) **End of dialysis at equilibrium**

Ivermectin solution
(unbound ligand)
at different
concentrations

Solution with spike
protein at constant
concentration

Unbound ligand

Spike protein
complex with
ivermectin

Bound ligand

Figure S1. Equilibrium dialysis technique.

Table S1. Ligand bound and unbound ivermectin at different concentrations with recombinant S1 protein.

Reciprocal absorbance Ligand bound $1/(A-A0)$	Reciprocal[1] Ligand bound (μM) $1/(bound)$	Reciprocal[1] Ligand unbound (μM) $1/(unbound)$
1.64	0.0195	0.0615
1.58	0.0188	0.0666
2.03	0.0237	0.2971
3.05	0.0345	0.2482
6.49	0.0661	0.4602
12.87	0.1104	1

[1]Values obtained for the reciprocals of the bound and unbound ligand in the recombinant S1 protein with ivermectin using the UV-Vis equilibrium dialysis technique.
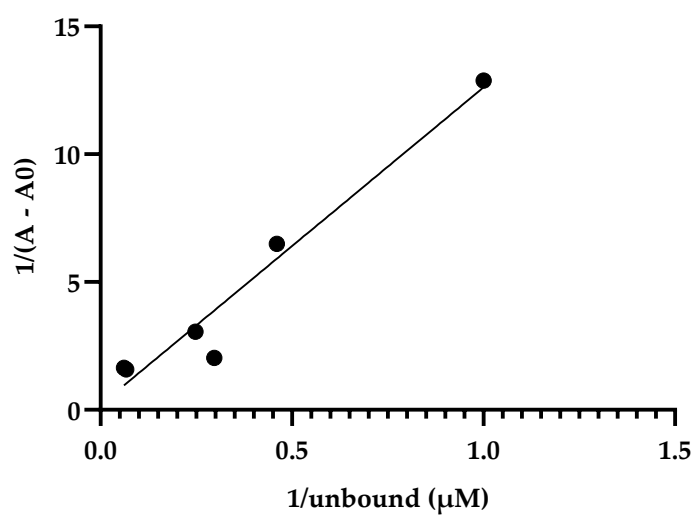
Figure S2. Double reciprocal plot of 1/(A-A0) versus 1/unbound.

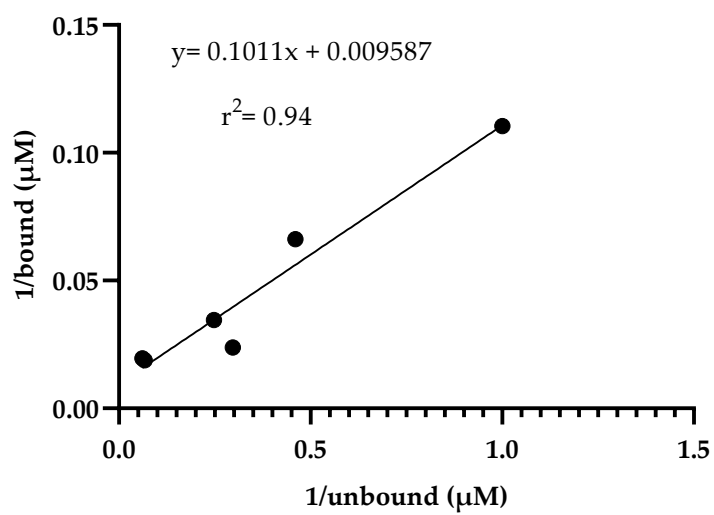**Figure S3.** Double reciprocal plot of 1/bound ligand versus 1/unbound ligand.