

CLAIMS

1. A protein comprising an amino acid sequence of SEQ ID NO: 51.
2. A protein comprising an amino acid sequence of SEQ ID NO: 52.
3. A protein comprising an amino acid sequence of SEQ ID NO: 53.
4. An isolated polynucleotide encoding the protein of any one of claims 1-3.
5. A vector comprising the polynucleotide of claim 4.
6. An isolated host cell comprising the vector of claim 5.
7. A method of producing the protein of any one of claims 1-3, comprising culturing the isolated host cell of claim 6 under conditions such that the protein is expressed, and purifying the protein.
8. A pharmaceutical composition comprising the protein of any one of claims 1-3 and a pharmaceutically acceptable carrier.
9. A method of detecting the presence of human serum albumin in a biological sample comprising contacting the biological sample with the protein of any one of claims 1-3 and evaluating the binding of the biological sample to the protein.
10. A kit comprising the protein of any one of claims 1-3.
11. A bispecific molecule comprising a first domain and a second domain, wherein the first domain comprises the protein of any one of claims 1-3 and the second domain is a molecule that binds to a target protein other than human serum albumin.
12. A pharmaceutical composition comprising the bispecific molecule of claim 11, and a pharmaceutically acceptable carrier.
13. The protein of any one of claims 1-3 wherein the protein is conjugated to at least one additional moiety.
14. The protein of claim 13, wherein the at least one additional moiety is a therapeutic moiety.