WHAT IS CLAIMED IS:

1. An amino acid sequence comprising EPKSSDKTHTCPPCPPC (SEQ ID NO: 168),

wherein the amino acid sequence is in a polypeptide of a minibody comprising an artificial hinge linking a scFv and a C_H3, wherein the artificial hinge comprises the amino acid sequence, wherein an upper hinge of the artificial hinge does not comprise a cysteine, and wherein the minibody does not comprise a native hinge.

2. The amino acid sequence of claim 1, wherein the amino acid sequence comprises EPKSSDKTHTCPPCPPCAPELLGGP (SEQ ID NO: 25).

3. The amino acid sequence of claim 1, wherein the minibody is a bispecific minibody, wherein the bispecific minibody is assembled in a 1:1 ratio.

4. The amino acid sequence of claim 1, wherein the amino acid sequence comprises EPKSSDKTHTCPPCPPCPPC (SEQ ID NO: 170).

5. The amino acid sequence of claim 1, wherein the amino acid sequence comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26).

6. A pharmaceutical composition comprising the amino acid sequence of claim 1, wherein the pharmaceutical composition has less than 5% aggregation of the minibody present in the composition.

7. An amino acid sequence comprising EPKSSDKTHTCPPCPPC (SEQ ID NO: 168),

wherein the amino acid sequence is in a polypeptide of a minibody comprising an artificial hinge linking a variable region and a C_H3, the variable region comprising a V_H and a V_L, wherein the artificial hinge comprises the amino acid sequence, wherein an upper hinge of the artificial hinge does not comprise a cysteine, and wherein the minibody does not comprise a native hinge.

8. The amino acid sequence of claim 7, wherein the amino acid sequence comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26).

9. A protein comprising an amino acid sequence comprising EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26), wherein the protein is a minibody comprising the amino acid sequence as an artificial hinge that links either:

i) a V_H and C_H3 of the protein, or

ii) a V_L and C_H3 of the protein.

10. An amino acid sequence within a minibody, the amino acid sequence comprising EPKSSDKTHTCPPCPPC (SEQ ID NO: 168),

wherein the amino acid sequence is part of an artificial hinge of a minibody, and wherein an upper hinge of the artificial hinge does not comprise a cysteine.

11. The amino acid sequence of claim 10, wherein the amino acid sequence comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26).

12. An amino acid sequence within a minibody, the amino acid sequence comprising:

a first amino acid sequence comprising EPKSSDKTHTCPPCPPC (SEQ ID NO: 168); and

a second amino acid sequence adjacent and C-terminal to the first amino acid sequence, wherein the second amino acid sequence is GGGSSGGGSG (SEQ ID NO: 59),

wherein the first and second amino acid sequences are at least part of an artificial hinge of a minibody, and wherein an upper hinge of the artificial hinge does not comprise a cysteine.

13. An amino acid sequence within a minibody, the amino acid sequence comprising:

a first amino acid sequence of CPPCPPC (SEQ ID NO: 52) as a core hinge of an artificial hinge of a minibody; and a second amino acid sequence of EPKSSDKTHT (SEQ ID NO: 46) as an upper hinge of the artificial hinge of the minibody, and wherein the upper hinge does not comprise a cysteine.

14. The amino acid sequence of claim 13, wherein the amino acid sequence comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26) comprising the first amino acid sequence and the second amino acid sequence.

15. An amino acid sequence within a minibody, the amino acid sequence comprising EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26) or EPKSSDKTHTCPPCPPCAPELLGGP (SEQ ID NO: 25),

wherein the amino acid sequence is at least part of an artificial hinge of a minibody, and wherein an upper hinge of the artificial hinge does not comprise a cysteine.

16. The amino acid sequence of claim 15, wherein the amino acid sequence comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26).

17. A minibody comprising EPKSSDKTHTCPPCPPC (SEQ ID NO: 168) as part of an artificial hinge of the minibody, wherein an upper hinge of the artificial hinge does not comprise a cysteine, and

wherein the minibody does not comprise a native hinge.

18. The minibody of claim 17, wherein the minibody comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26) as at least part of the artificial hinge of the minibody.

19. A minibody comprising:

a first amino acid sequence comprising:

EPKSSDKTHTCPPCPPC (SEQ ID NO: 168); and

a second amino acid sequence adjacent and C-terminal to the first amino acid sequence, wherein the second amino acid sequence is GGGSSGGGSG (SEQ ID NO: 59),

and wherein the first and second amino acid sequences are at least part of an artificial hinge of the minibody, wherein an upper hinge of the artificial hinge does not comprise a cysteine,

wherein the minibody does not comprise a native hinge.

20. A minibody comprising:

a first amino acid sequence of CPPCPPC (SEQ ID NO: 52) as a core hinge of an artificial hinge of the minibody; and

a second amino acid sequence of EPKSSDKTHT (SEQ ID NO: 46) as an upper hinge of the artificial hinge of the minibody.

21. The minibody of claim 20, wherein the minibody comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26) comprising the first amino acid sequence and the second amino acid sequence.

22. A minibody comprising:

a scFv;

a C_H3; and

an amino acid sequence comprising EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26), wherein the amino acid sequence links the scFv to the C_H3.

23. A minibody comprising:

a first polypeptide comprising:

a first scFv;

a first amino acid sequence comprising:

(a) EPKSSDKTHTCPPCPPC (SEQ ID NO: 168);

a first C_H3; and

a first artificial hinge linking the first scFv and the first C_H3,

wherein the first artificial hinge comprises the first amino acid sequence, and wherein a first upper hinge of the first artificial hinge does not comprise a cysteine; and

a second polypeptide comprising:

a second scFv;

a second amino acid sequence comprising:

(b) EPKSSDKTHTCPPCPPC (SEQ ID NO: 168);

a second C_H3; and

a second artificial hinge linking the second scFv and the second C_H3,

wherein the second artificial hinge comprises the second amino acid sequence, and wherein a second upper hinge of the second artificial hinge does not comprise a cysteine,

wherein the first polypeptide is cross-linked to the second polypeptide by at least two disulfide bridges, wherein each disulfide bridge is between a cysteine of (a) and a cysteine of (b), and wherein the minibody does not comprise a native hinge.

24. The minibody of claim 23, wherein the first polypeptide comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26) comprising (a), and wherein the second polypeptide comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26) comprising (b).

25. A minibody comprising:

a first polypeptide comprising:

a first amino acid sequence comprising:

(a) EPKSSDKTHT (SEQ ID NO: 46) as a first upper hinge, wherein the first upper hinge does not comprise a cysteine; and

(b) a first core hinge comprising CPPCPPC (SEQ ID NO: 52);

a first variable region;

a first C_H3; and

a first hinge linking the first variable region and the first C_H3,

wherein the first hinge comprises (a) and (b); and

a second polypeptide comprising:

a second amino acid sequence comprising:

(c) EPKSSDKTHT (SEQ ID NO: 46) as a second upper hinge, wherein the second upper hinge does not comprise a cysteine; and

(d) a second core hinge comprising CPPCPPC (SEQ ID NO: 52);

a second variable region; and

a second C_H3; and

a second hinge linking the second variable region and the second C_H3,

wherein the second hinge comprises (c) and (d).

26. The minibody of claim 25, wherein the first polypeptide comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26) comprising (a) and (b), and wherein the second polypeptide comprises EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26) comprising (c) and (d).

27. An amino acid sequence of a hinge of a minibody, comprising:

EPKSSDKTHTCPPCPPC (SEQ ID NO: 168), comprising an upper hinge sequence and a core hinge sequence of the hinge, wherein the upper hinge sequence does not comprise a cysteine.

28. The amino acid sequence of claim 27, wherein the amino acid sequence is EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26).

29. A minibody comprising an amino acid sequence comprising:

(a) EPKSSDKTHT (SEQ ID NO: 46) as an upper hinge of the minibody, wherein the upper hinge does not comprise a cysteine; and

(b) a core hinge comprising a sequence of CPPCPPC (SEQ ID NO: 52).

30. The minibody of claim 29, wherein the amino acid sequence is EPKSSDKTHTCPPCPPCGGGSSGGGSG (SEQ ID NO: 26), which comprises (a) and (b).

31. A minibody comprising:

a first amino acid sequence comprising:

(a) EPKSSDKTHT (SEQ ID NO: 46) as an upper hinge of the minibody, wherein the upper hinge does not comprise a cysteine; and

(b) a core hinge comprising a sequence of CPPCPPC (SEQ ID NO: 52); and

a second amino acid sequence C-terminal to the first amino acid sequence, wherein the second amino acid sequence is GGGSSGGGSG (SEQ ID NO: 59).

32. A minibody comprising:

a scFv;

a C_H3; and

an artificial hinge linking the scFV to the C_H3, wherein the artificial hinge comprises an amino acid sequence comprising:

(a) EPKSSDKTHT (SEQ ID NO: 46) as an upper hinge of the minibody, wherein the upper hinge does not comprise a cysteine; and

(b) a core hinge comprising a sequence of CPPCPPC (SEQ ID NO: 52), wherein the minibody does not comprise a native hinge.