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(54) Title: ENVELOPED VIRUS RESISTANT TO COMPLEMENT INACTIVATION FOR THE TREATMENT OF CANCER

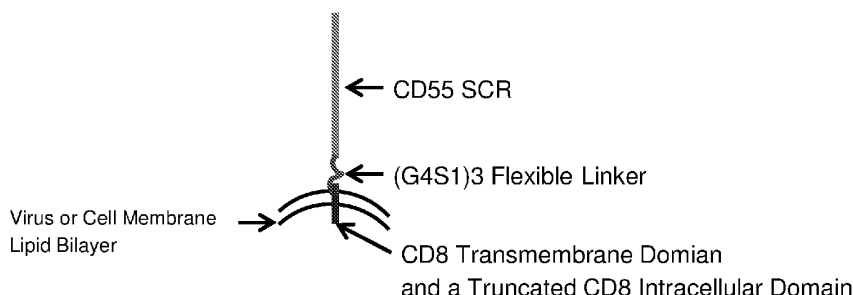


Figure 2

(57) Abstract: A recombinant fusion protein is disclosed. The fusion protein comprises: (a) a CD55 peptide sequence, (b) a linker sequence C-terminal to the CD55 sequence, (c) a transmembrane domain C-terminal to the linker sequence, and (d) an intracellular domain C-terminal to the transmembrane domain. The fusion protein does not contain a GPI anchor. The fusion protein can be expressed with an N-terminal secretory signal peptide, which is cleaved to yield the mature protein on the surface of a cell line or an enveloped virus. An oncolytic virus expressing the fusion protein is resistant to complement inactivation and can be used to treat cancer.

[Continued on next page]

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