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(54) **Title**: ANTICANCER FUSION PROTEIN

(57) **Abstract**: A fusion protein comprising domain (a) which is the functional fragment of a hTRAIL protein sequence, which fragment begins with an amino acid at a position not lower than hTRAIL95, or a homolog of said functional fragment having at least 70% sequence identity; and at least one domain (b) which is the sequence of an effector peptide having anti-proliferative activity against tumour cells, wherein the sequence of domain (b) is attached at the C-terminus or at the N-terminus of domain (a).The fusion protein can be used for the treatment of cancer diseases.