

A fusion protein comprising domain (a) which is a functional fragment of 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 domain (b) which is a sequence of an anti-angiogenic effector peptide, wherein the sequence of domain (b) is attached at the C-terminus or N-terminus of domain (a). The fusion protein can be used for the treatment of cancer diseases.