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(54) Title: POLYPEPTIDES BINDING TO HUMAN COMPLEMENT C5

(57) Abstract: The present invention relates to C5 binding polypeptides, comprising a C5 binding motif, *BM*, which motif consists of an amino acid sequence selected from i) $EX_2X_3X_4A\ X_6X_7EID\ X_{11}LPNL\ X_{16}X_{17}X_{18}QW\ X_{21}AFIX_{25}X_{26}LX_{28}D$, and ii) an amino acid sequence which has at least 86 % identity to the sequence defined in i), wherein the polypeptide binds to C5. The present invention moreover relates to C5 binding polypeptides for use in therapy, such as for use in treatment of a C5 related condition, and to methods of treatments.