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(54) Title (EN): HETEROMULTIMERIC PROTEINS AND METHODS OF USE THEREOF

(54) Title (FR): PROTÉINES HÉTÉROMULTIMÈRES ET LEURS MÉTHODES D'UTILISATION

(57) Abstract:

(EN): The present application provides heteromultimeric proteins, such as bispecific antibodies, comprising a first antibody heavy chain constant domain 3 (CH3)-containing polypeptide having a substitution relative to a wildtype CH3 domain at amino acid position 354 with a bulky hydrophobic amino acid, and/or a second CH3 -containing polypeptide comprising a substitution relative to a wildtype CH3 domain at amino acid position 347 with a negatively charged amino acid residue. Also provided are polypeptides, nucleic acids and vectors encoding such polypeptides, pharmaceutical compositions, methods of preparation and methods of treatment using the heteromultimeric proteins.

(FR): La présente invention concerne des protéines hétéromultimères, telles que des anticorps bispécifiques, comprenant un premier polypeptide contenant un domaine 3 constant de chaîne lourde (CH3) d'anticorps, comportant une substitution par rapport à un domaine CH3 de type sauvage, à la position d'acide aminé 354, avec un acide aminé hydrophobe volumineux, et/ou un second polypeptide contenant CH3 comprenant une substitution par rapport à un domaine CH3 de type sauvage, à la position d'acide aminé 347, avec un résidu d'acide aminé chargé négativement. L'invention concerne également des polypeptides, des acides nucléiques et des vecteurs codant pour de tels polypeptides, des compositions pharmaceutiques, des procédés de préparation et des méthodes de traitement utilisant ces protéines hétéromultimères.

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