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(54) Title: TARGETING VECTOR-PHOSPHOLIPID CONJUGATES

(57) Abstract: Peptide vectors having high KLDR binding affinity and processes for making such vectors are provided. The peptide vectors may be conjugated to phospholipids and included in ultrasound contrast agent compositions. Such ultrasound contrast agents are particularly useful in therapeutic and diagnostic methods, such as in imaging KDR-containing tissue and in the evaluation and treatment of angiogenic processes associated with neoplastic conditions. The present invention also provides processes for the large scale production of highly pure dimeric and monomeric peptide phospholipid conjugates as well as precursor materials used to form the conjugates. The present invention further provides processes for the large scale production of highly pure peptide phospholipid conjugates which contain very low levels of TFA.

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