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(54) Title: METHODS AND COMPOSITIONS FOR DELIVERY OF BIOTIN TO MITOCHONDRIA

(57) Abstract: Certain exemplary embodiments are directed to a biologically active composition of matter (and uses thereof) configured for targeted delivery of biotin to mitochondria, the composition comprising a first D-biotin conjugated to a water-soluble, cell-permeable, peptide sequence, wherein the peptide sequence is selected from a polypeptide group with an alternating aromatic-cationic motif.

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