



Rational Design of Purely Peptidic Amphiphiles for Drug Delivery Applications

By Dirk de Bruyn Ouboter

Cuvillier Verlag Jul 2011, 2011. Taschenbuch. Book Condition: Neu. 211x148x15 mm. Neuware - A broad range of new properties is emerging from supramolecular aggregates. Self-assembled structures of purely peptidic amphiphiles exploit these properties to produce biocompatible, biodegradable, smart materials for drug administration. This thesis explores the design, synthesis, purification, characterization of purely peptidic amphiphiles, and the evaluation of potential applications. The first chapter provides a general introduction to the field of self-assembly and drug delivery as compared to nature's delivery mechanisms. Further, the advantage of amino acid based molecules in producing smart materials for drug delivery applications is highlighted via biocompatibility and biodegradability considerations. Next, synthetic strategies and purification methods are discussed. Finally gramicidin A (gA) - a naturally occurring, short, hydrophobic, membrane-integrating peptide used to produce the amphiphilic peptides presented here - is introduced. Chapter two presents an initial approach to produce self-assembled structures by purely peptidic amphiphiles. The undecamer used features a repetitive L-tryptophan and D-leucine (LW-DL) motif representing the hydrophobic block, and an N-terminally attached hydrophilic (lysine or acetylated lysine) section. Besides solid-phase peptide synthesis and purification, the process that self-assembles micelles and spherical peptide particles, termed 'peptide beads' was characterized as a function of temperature and...

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