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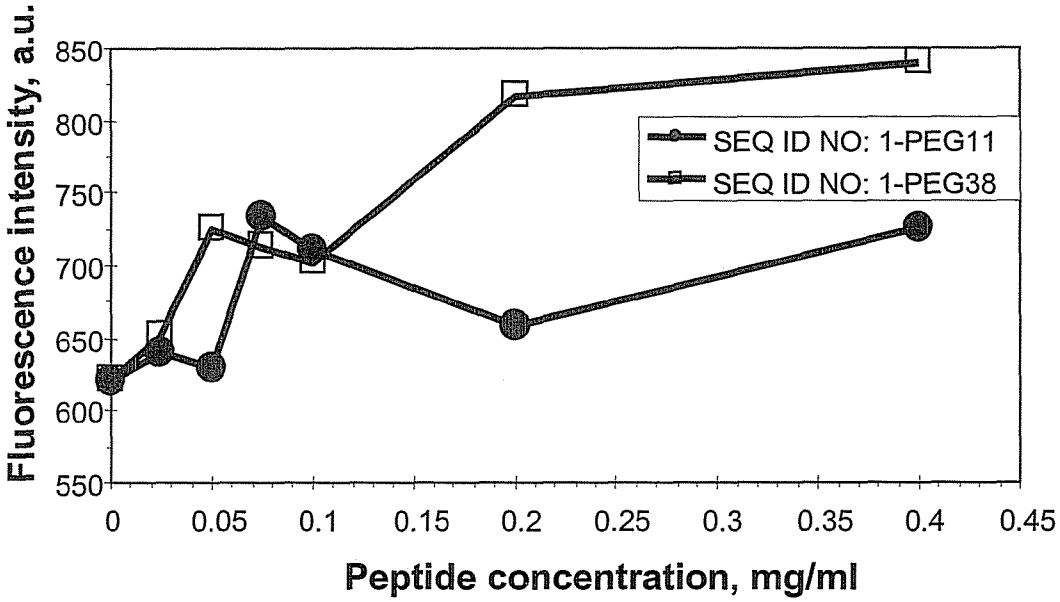
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(54) Title: SELF-ASSEMBLING NANOPARTICLES COMPOSED OF TRANSMEMBRANE PEPTIDES AND THEIR APPLICATION FOR SPECIFIC INTRA-TUMOR DELIVERY OF ANTI-CANCER DRUGS



(57) Abstract: The invention provides a method of handling a hydrophobic agent, which method comprises (a) combining in an aqueous solution (i) a hydrophobic agent and (ii) an isolated peptide that is a structural analog of a transmembrane domain of an integral membrane protein, wherein one terminus of the peptide has one or more negatively charged residues, and (b) allowing the peptide to self-assemble into nanoparticles, wherein the nanoparticles comprise the hydrophobic agent.

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