Synthesis of fragments of Prostatic Acid Phosphatase PAP(248-286) peptide and structures of fibrils prepared from this peptide

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Abstract

We describe detailed protocol of preparation of fibrillar aggregates of Prostatic Acid Phosphatase PAP(248-286) peptide and structural properties of these aggregates studied by atomic-force microscope. We found that PAP aggregates are characterized by filamentous morphology, consisting of fibrils with similar thickness (~ 15 nm in diameter) and various lengths (from 100 nm to 1 µm long). Some fibrils have spherical aggregates. The tendency of fibrils to assemble in high level aggregate was not observed.