

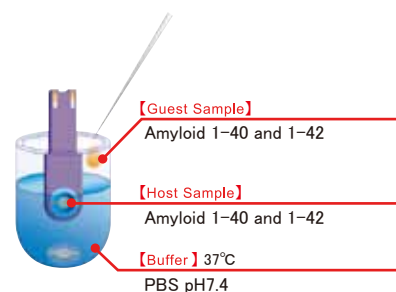
Application Note

A-05

Self-aggregation of β -amyloid Protein

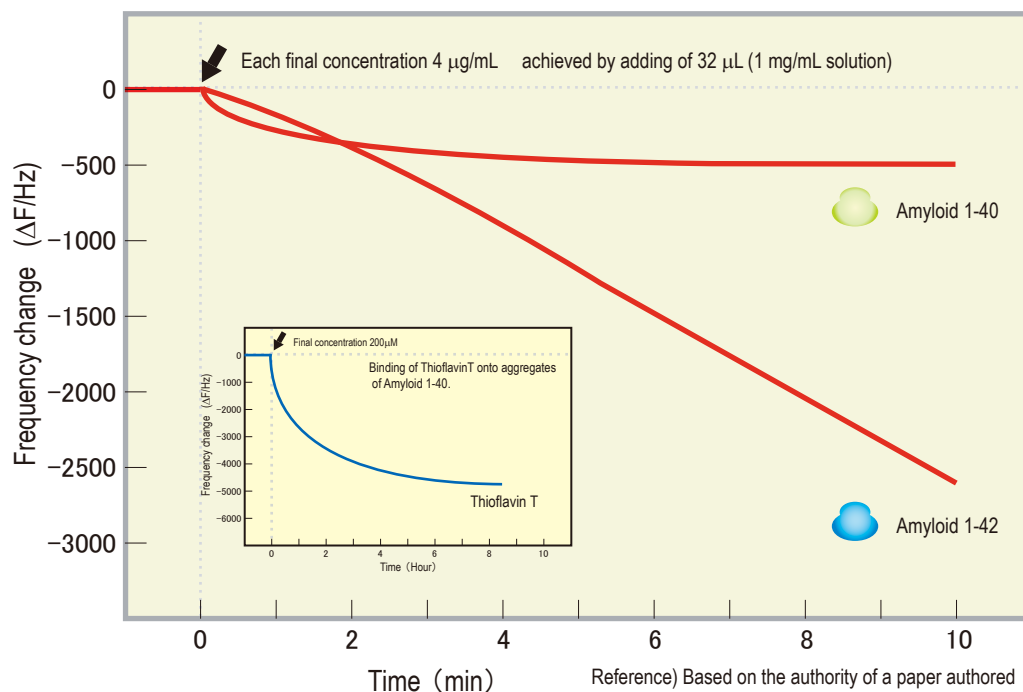
Materials

1. β -Amyloid protein 1-40 \cdot HCl salt (Peptide Institute, Inc.)
2. β -Amyloid protein 1-42 \cdot TFA salt (Peptide Institute, Inc.)



Results

1. Aggregation reaction of β -Amyloid protein was observed.
2. Amount of aggregated was 1-40 < 1-42.
3. Binding of Thioflavin T indicated the existence of β -sheet structure.



Reference) Based on the authority of a paper authored by Dr. Hiroaki Okuno of Toho University. *Chem. Biol. Drug Des., 68, 273-275 (2006)

Applications

1. Rapid mechanism analysis of prion disease such as Mad cow disease and the Alzheimer's disease.
2. Analysis and detection of molecular interaction that takes long time is possible.
3. Inhibitor assay and mechanism analysis of drug and antibody to aggregation of prion protein.

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Issued on October 1, 2007