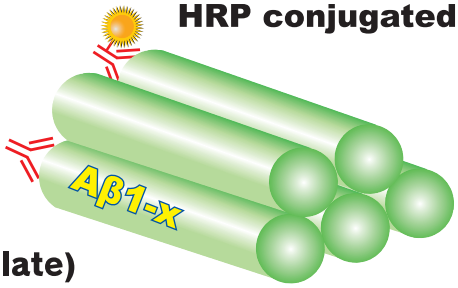
IBL Amyloidβ Oligomers (82E1-specific) Assay Kit

- Research Use Only-

Code No.	Name			Volume	Assay Range	Measuring Sample
27725	Human	Amyloid β Oligomers (82E1-specific)	Assay Kit - IBL	96 Well	18.98 ～ 1,215 pmol/L	Serum, EDTA-plasma, Brain tissue extract

This kit is a solid phase sandwich ELISA. The strength of coloring reflects the amount of molecules which bind to anti-human Aβ (N) (82E1) mouse monoclonal antibodies, recognize the N-terminus of human Aβ specifically, with two or more epitopes (oligomers, polymers with a protein etc.).

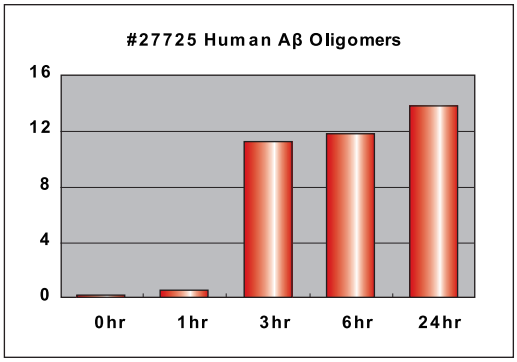
Principle



Measurement examples of Amyloidβ Oligomers

Aβ 1-42 solution in DMSO was diluted with 0.1 % NH_4OH and it was incubated at 37°C while stirring, and then Aβ in the solution was measured after each 0, 1, 3, 6 or 24 hours incubation.

Amyloidβ Oligomers Assay

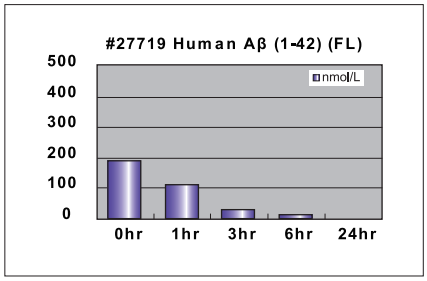


N	Measurement Value(nM)	Theoretical Value(nM)	Ratio (%)
0hr	0.10	243.9	0.04
1hr	0.47	243.9	0.19
3hr	11.08	243.9	4.54
6hr	11.61	243.9	4.76
24hr	13.75	243.9	5.64

Conclusion:

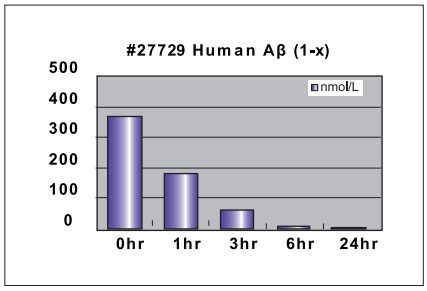
1. Measurement values of Aβ Oligomers increased with time.
2. Each of measurement values of Aβ (1-42) (FL) and Aβ (1-x) decreased with time.
3. Obvious change was not observed in measurement value of Aβ (1-40).

Amyloidβ 1-42 FL Assay



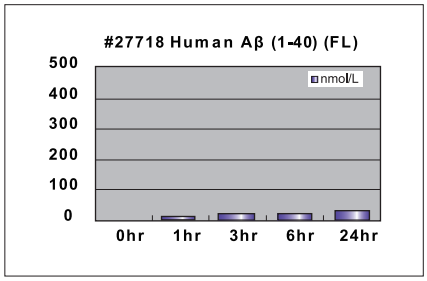
1-42 FL	Measurement Value(nM)	Theoretical Value(nM)	Ratio (%)
0hr	180.37	243.9	73.95
1hr	111.1	243.9	45.55
3hr	33.14	243.9	13.59
6hr	4.26	243.9	1.75
24hr	1.22	243.9	0.50

Amyloidβ 1-x Assay



1-x	Measurement Value(nM)	Theoretical Value(nM)	Ratio (%)
0hr	430.54	243.9	176.52
1hr	220.13	243.9	90.25
3hr	74.93	243.9	30.72
6hr	13.12	243.9	5.38
24hr	6.13	243.9	2.51

Amyloidβ 1-40 FL Assay



1-40 FL	Measurement Value(nM)	Theoretical Value(nM)	Ratio (%)
0hr	0.11	243.9	0.05
1hr	1.24	243.9	0.51
3hr	2.15	243.9	0.88
6hr	2.12	243.9	0.87
24hr	2.98	243.9	1.22

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