

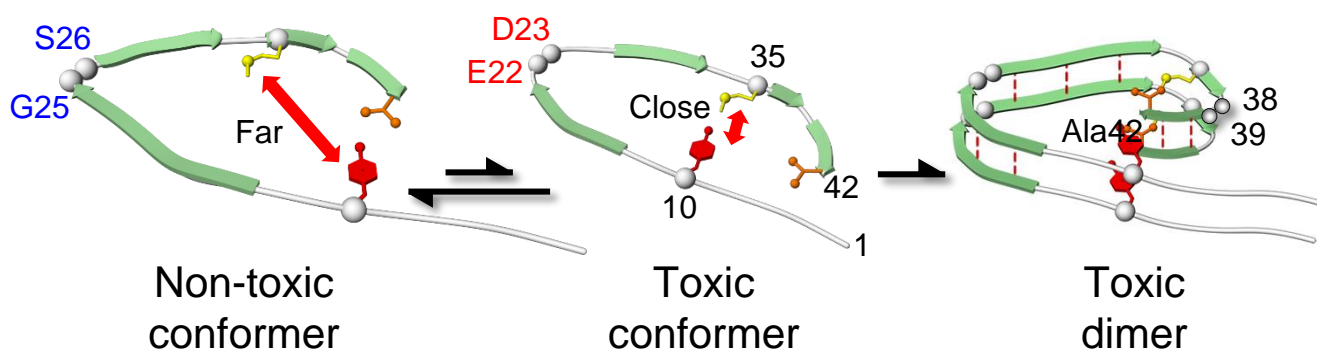
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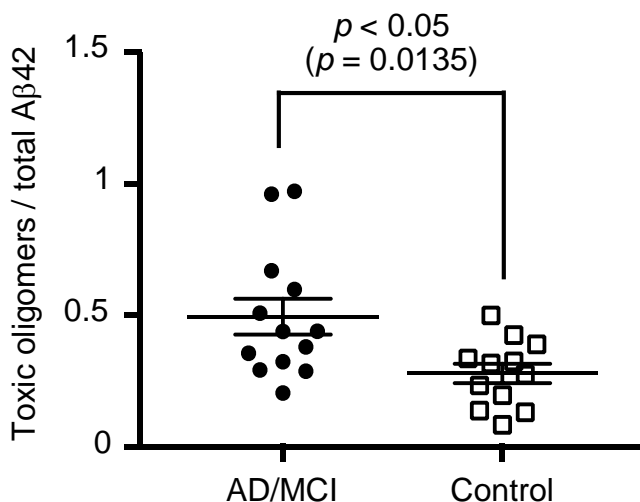
Specific ELISA for Toxic Amyloid β Oligomers

- For Research Use -

- Toxic and non-toxic conformer of A β
- Specific ELISA kit for toxic A β oligomer



Code	Species	Name	Package Size	Measurement Range	Measuring Samples
27709	Human	Human Amyloid β Toxic Oligomer Assay Kit - IBL	96 well	3.13 ~ 200 pg/mL	CSF



Oligomerization of A β 42 is considered as an early event in AD. Irie *et al.* have proposed the toxic conformer with a turn at positions 22 and 23 in A β 42 aggregates.¹⁾ This toxic A β conformer could form stable and neurotoxic oligomers.

Antibody 24B3, highly specific for the toxic A β 42 conformer, has been developed to be applied for ELISA assay kit.²⁾ This kit could detect selectively putative A β oligomers in CSF.

The ratio of toxic A β oligomers to total A β 42 in CSF could distinguish between AD/MCI patients and age-matched individuals.

References

- Morimoto A, Irie K, Murakami K, Masuda Y, Ohigashi H, Nagao M, Fukuda H, Shimizu T, Shirasawa T. Analysis of the secondary structure of β -amyloid (A β 42) fibrils by systematic proline replacement. *J Biol Chem.* 2004 Dec 10; 279(50): 52781-8.
- Murakami K, Tokuda M, Suzuki T, Irie Y, Hanaki M, Izuo N, Monobe Y, Akagi K, Ishii R, Tatebe H, Tokuda T, Maeda M, Kume T, Shimizu T, Irie K. Monoclonal antibody with conformational specificity for a toxic conformer of amyloid β 42 and its application toward the Alzheimer's disease diagnosis. *Sci Rep.* 2016 Jul 4; 6: 29038.

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