

Oligomeric Human beta-Amyloid Abeta1-42 Peptide, Stabilized

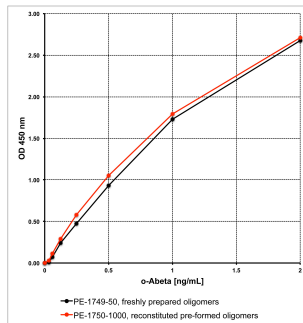
Catalogue No.:	PE-1750-1000
Description:	<p>A proprietary preparation of human amyloid beta peptide (amino acids 1-42) that was initially monomerized by HFIP-treatment and then allowed to form oligomers by the procedure described in Youmans KL et al., 2012, followed by lyophilisation using Biosensis' proprietary stabilization procedures.</p> <p>The resulting oligomeric mixture has been specially designed to allow the formation of stable, oligomeric Abeta1-42 peptide, multimeric complexes or oligomers. The material is intended to be used as a stable and consistent standard or positive control for oligomeric ELISA assays, as well as other research applications.</p>
Related products:	Oligomeric Abeta ELISA Kit (BEK-2215) ApoE/Abeta Complex ELISA kit (BEK-2224) Beta-Amyloid Abeta1-42 Peptide, HFIP-treated (PE-1749-50) MOAB-2 Mouse Monoclonal Antibody to Abeta Peptide (Abeta1-40/42, M-1586-100)
Batch No.:	See product label. Each lot is tested by ELISA assay and validated for oligomer formation (Oligomeric A β ELISA Kit, BEK-2215).
Unit size:	1000 ng. Supplied as 2 x 500 ng vials, each containing lyophilized A-beta oligomers. Note that the amount of provided oligomeric protein is based on the amount of monomeric A-beta; used to form these oligomers. The precise formation, size and number of oligomers cannot be quantified by any known method.
Sequence:	DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA
Other Names:	Beta-APP42; Beta-amyloid protein 42; ABPP; APPI; Amyloid beta A4 protein; AB42; abeta
Accession:	P05067 A4_HUMAN;
Molecular Weight:	4.5 kDa (monomeric A β 1-42).
Applications:	<p>Use as positive control in Oligomeric A-beta ELISA Kit (BEK-2215): Reconstitute one vial with 1 mL of assay buffer provided in the ELISA kit. Dilute to a concentration of 0.5-1 ng/mL. At this concentration, a positive signal will be obtained within the dynamic range of the calibration curve. Use as oligomeric A-beta peptide standard in Oligomeric A-beta ELISA Kit (BEK-2215): Reconstitute one vial with 1 mL of assay buffer provided in the ELISA kit. Dilute to a concentration of 2 ng/mL, which represents the highest concentration of the calibration curve. Perform a 1:2 serial dilution down to 0.031 ng/mL in assay buffer. Click here for detailed instructions on generating a calibration curve with PE-1750-1000. Use as positive control in other applications: Optimal concentrations need to be determined empirically. It is recommended to reconstitute the vial with 100 - 200 μL buffer first (eg., PBS, pH 7.4), and prepare further working dilutions thereof.</p>
Appearance:	Lyophilized powder, without preservatives. May appear wet due to the hygroscopic nature of the stabilizing buffer, which does not affect product quality.
Storage:	Store unopened, lyophilized oligomeric A-beta with desiccant, insulated, at -20C short term, -80C long term. Store reconstituted vial at 2-8C for up to 2 days. The reconstituted material should not be frozen for best results.

FOR RESEARCH USE ONLY

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Expiry Date: Stability of unopened vials is 6 months if stored appropriately.

General References: Youmans KL. et al. (2012) Intraneuronal Abeta detection in 5xFAD mice by a new Abeta-specific antibody. Mol Neurodegener. 2012 Mar 16;7(1):8.



Oligomeric A-beta standard curves generated with BEK-2215 (Oligomeric A beta ELISA kit). Pre-formed oligomers (PE-1750-1000) were reconstituted in assay buffer and compared to oligomers freshly prepared from HFIP-treated A-beta peptide (PE-1749-50). This data demonstrates the usefulness of PE-1750-1000 as oligomeric A-beta protein standard.

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