Product Datasheet

beta Amyloid 42 Peptide
NBP3-18318-1mg

Unit Size: 10 x 100ug Vials

Store at -70C. Avoid freeze-thaw cycles.

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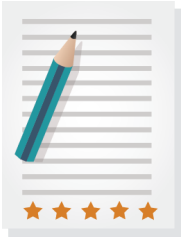


NBP3-18318-1mg

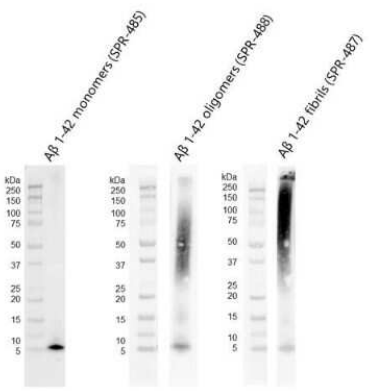
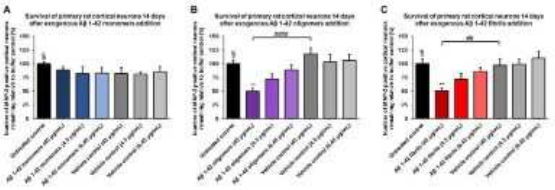
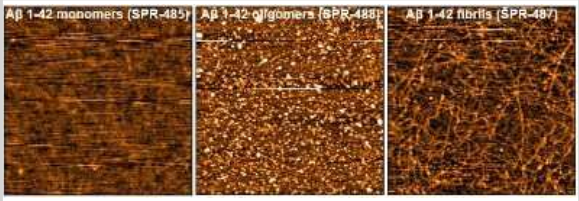
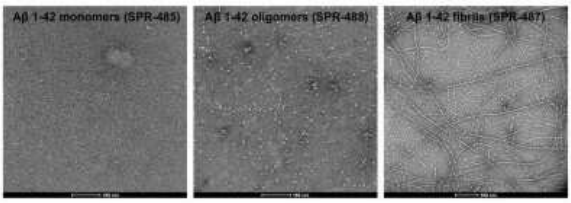
beta Amyloid 42 Peptide

Product Information	
Unit Size	10 x 100ug Vials
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -70C. Avoid freeze-thaw cycles.
Preservative	No Preservative
Reconstitution Instructions	See Reconstitution Instructions PDF for detailed protocol
Purity	>98%, by HPLC
Buffer	Dry powder.
Target Molecular Weight	4.5 kDa

Product Description	
Description	A synthetic peptide treated with HFIP corresponding to human beta Amyloid 42. **Amino Acid Sequence:** DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA
Gene ID	351
Gene Symbol	APP
Species	Human

Product Application Details	
Applications	Western Blot, Electron Microscopy, Immunomicroscopy, In vitro assay, In vivo assay
Recommended Dilutions	Western Blot, In vitro assay, Immunomicroscopy, Electron Microscopy, In vivo assay

Images

Western Blot: beta Amyloid 42 Peptide [NBP3-18318] - Western blot of amyloid beta 1-42 monomers (NBP3-18318, left), oligomers (middle) and fibrils (right) using anti-amyloid beta 6E10 antibody. Amyloid beta constructs at 160 pmol were run on 4-12% Bis-Tris SDS-PAGE, transferred to nitrocellulose in the presence of 0.02% v/v Tween-20, and blotted with 1:1000 mouse 6E10 primary antibody (Biolegend). Oligomers observed under TEM/AFM show distinct dimer/trimer bands as well as a signal from ~37-75 kDa (middle). Fibrils observed under TEM/AFM show a signal greater than 100 kDa and a distinct signal in the stacking gel (right).	
In vitro assay: beta Amyloid 42 Peptide [NBP3-18318] - Amyloid beta 1-42 oligomers and fibrils show a dose-dependent toxicity to primary rat cortical neurons, but not monomers (NBP3-18318). Survival of rat primary cortical neurons 14 days after treatment with different concentrations of (A) monomers, (B) oligomers or (C) fibrils quantified by MAP2 positive neurons and expressed as a percentage of control. Fibrils and respective vehicle controls were initially sonicated in a Bioruptor. Test conditions were run in the same plate as untreated control and vehicle controls, which consisted of buffer without amyloid beta 1-42 protein. Data expressed as mean +/- s.e.m. (n=6). A global analysis of the data was performed using a one-way ANOVA followed by Dunnetts test; ** p<0.01 stats vs control; ## p<0.01, #### p<0.0001 stats vs vehicle control.	
Immunomicroscopy: beta Amyloid 42 Peptide [NBP3-18318] - AFM of amyloid beta 1-42 monomers (NBP3-18318, left), oligomers (middle) and fibrils (right). Atomic force microscopy analysis of 1.0 mg/mL samples diluted to 0.1 mg/mL in dH2O, mounted on freshly cleaved mica, washed, dried and analyzed with tapping mode. Representative images are 2.5 x 2.5 m x-y with a z-range of 10 nm.	
Electron Microscopy: beta Amyloid 42 Peptide [NBP3-18318] - TEM of amyloid beta 1-42 monomers (NBP3-18318, left), oligomers (middle) and fibrils (right). Negative stain transmission electron microscopy images acquired at 80 Kv on carbon coated 400 mesh copper grids using phosphotungstic acid and uranyl acetate stain. Scale bar = 100 nm.	

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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