

**Datasheet for 000-001-L22****Beta Amyloid 11-42 Peptide****Overview**

|                     |                                          |
|---------------------|------------------------------------------|
| <b>Description:</b> | Beta Amyloid 11-42 Peptide - 000-001-L22 |
| <b>Item No.:</b>    | 000-001-L22                              |
| <b>Size:</b>        | 1 mg                                     |

**Product Details**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Background:</b> | Amyloid peptides, derived from amyloid precursor protein (APP), are thought to play a role in the development of the senile plaques associated with Alzheimer's disease. The amyloid hypothesis presupposes that flaws in the processing of APP result in abnormally high levels of the longer, "stickier" forms of beta amyloid, known as A $\beta$ 42 and A $\beta$ 43, leading to aggregation of amyloid in the neuronal cell death and ultimately neuronal death. Mutations in the structure of A $\beta$ 40 and related peptides as well as in some of the enzymes involved in the processing of APP have been shown to alter the processing of APP. The sporadic (i.e., non-genetic) form of the disease, however, is far more common, caused by aging in concert with a number of both genetic and environmental risk factors. |
| <b>Synonyms:</b>   | ABPP, APP1, Alzheimer disease amyloid protein, Cerebral vascular amyloid peptide, Protease nexin-II, control peptide, blocking peptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Type:</b>       | Peptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Target Details**

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|----------------------------|------------------------------------|
| <b>Purity/Specificity:</b> | Greater than 95% specific peptide. |
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**Application Details**

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| <b>Application Note:</b> | Beta Amyloid 11-42 Control Peptide is suitable for use in ELISA, Western Blot, Dot blot, PCA, and other assays. Control peptide should be used at 1.0 $\mu$ g per 1.0 $\mu$ l of antiserum in per assay. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                  |

## Formulation

|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                  |
| <b>Concentration:</b>         | 1.0 mg/ml by dry weight                      |
| <b>Buffer:</b>                | None                                         |
| <b>Reconstitution Volume:</b> | 1.0 mL                                       |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent) |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                 |
| <b>Storage Condition:</b>  | Store vial at 2 - 8 ° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                   |

## Disclaimer

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