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DATA SHEET

Product Name: Beta-Amyloid (1-40), Biotin Labeled

Catalog #: A-1111

Source: Synthetic peptide.

Sequence: **Biotin-D A E F R H D S G Y E V H H Q K L V F F**
Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-
A E D V G S N K G A I I G L M V G G V V
Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val

Molecular Mass: 4557.2

Peptide Purity: >95%

Supplied As: White lyophilized powder

Resuspension: Resuspend in 1 % NH₄OH, at a concentration of 1 mg/ml. Sonicate for 30 seconds to 1 minute after it has gone into solution.
To bring it into your buffer: After resuspension, add 5x or 10x buffer stock and water, to bring to 1x buffer.

Storage: -20⁰C

Description: Biotin (N-terminus) labeled Beta-amyloid peptide (Abeta). Abeta is the major constituent of amyloid plaques in the brains of Alzheimer's patients, and is thought to be the cause of Alzheimer's Disease (AD). AD is the most common neurodegenerative disease and afflicts about 10% of the population over 60⁴.

References:

- 1) Saito, Y., et. al., (2000) PNAS, **92**: 10227
- 2) Yankner, BA, et. al., (1990) Science, **250**: 279-282
- 3) Selkoe, D.J., (2001) Physiol. Rev, **81**: 741-766
- 4) Stine, W.B. et. al., (2003) J. Biol. Chem, **278**: 11612-11622
- 5) Frank, R.A., et. al., (2003) Neurobiology of Aging, **24**: 521-536

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