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DATA SHEET

- Product Name:** Beta-Amyloid (1-42), Starter Kit
- Catalog #:** A-1160-1; Has 4 salts of beta-amyloid,1-40:
A-1002; TFA salt ¹
A-1163; HFIP treated ²
A-1165; NaOH salt ³
A-1166: HCl salt ⁴
- Source:** Recombinant. A DNA sequence encoding the human beta-amyloid (1-42) sequence was expressed in E. coli.
- Sequence:** **D A E F R H D S G Y E V H H Q K L V F F A**
Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-
E D V G S N K G A I I G L M V G G V V I A
Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala
- Molecular Mass:** 4514.1
- Peptide Purity:** >97%
- 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:** -20°C
- Description:** Beta-amyloid peptide (Abeta), the major constituent of amyloid plaques in the brains of Alzheimer's patients, is thought to be the cause of Alzheimer's Disease (AD)^{5,6}. AD is the most common neurodegenerative disease and afflicts about 10% of the population over 60⁷.
- References:** 1) Shu-chuan Jao, S-C, et. al. (1997) Amyloid; Int J Exp. Clinical Invest. **4**: 231
2) Stine, W.B. et. al. 2003, *J. Biol. Chem*, **278**, 11612
3) Fezoui, Y., et. al. 2000, *Amyloid*, **7**, 166
4) Kanek, I and Tutumi, S., 1997, *J. Neurochem*, **68**, 438
5) Yankner, BA, et. al., (1990) *Science*, **250**: 279-282
6) Selkoe, D.J., (2001) *Physiol. Rev*, **81**: 741-766
7) Frank, R.A., et. al., (2003) *Neurobiology of Aging*, **24**: 521-536

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