

DATA SHEET

Product Name: Beta-Amyloid (1-42), <E22> Deletion

Catalog #: A-1028

Source: Recombinant. A DNA sequence encoding the human beta-amyloid (1-42) <E22> deletion sequence was expressed in E. coli

Molecular Mass: 4,384 Da theoretical

Protein Purity: >95% by Mass Spec.

Counter Ion: HFIP

Supplied As: Clear, dry film

Resuspension: The protein is soluble in DMSO at 1mg/ml. The protein should not be resuspended in 1% NH₄OH, as it forms a gelatinous mass within 30-40minutes.

Storage: -20°C

Description: Beta-amyloid (A-beta) has been long reported as the major constituent of amyloid plaques in the brains of Alzheimer's patients, and is believed by many to be the cause of Alzheimer's Disease (AD). AD is the most common neurodegenerative disease and afflicts more than 10% of the population over 65. Recombinantly expressed and sourced from E. coli, rPeptide's high quality beta-amyloid products offer batch-to-batch consistency and ultrapure starting material for your research needs. The HFIP (hexafluoroisopropanol) counter-ion is a peptide which was purified before being dried with HFIP, leaving a clear dried film rather than a lyophilized powder. This counter-ion is a popular choice for researchers wishing to skip the HFIP-treatment process in their own lab while still working with a highly monomeric starting material.

References:

1. Yankner, B., et al., (1990) Science, 250 : 279-282
2. Stine, W., et al., (2003) J. Biol. Chem, 278 : 11612-11622
3. Frank, R., et al., (2003) Neurobiology of Aging, 24 : 521-536
4. Novo, M., Freire, S., & Al-Soufi, W., (2018) Sci Rep 8 : 1783

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