

DATA SHEET

Product Name:	Beta-Amyloid (1-40), Ultra-Pure, Ammonium Hydroxide
Catalog #:	A-1157
Source:	Recombinant. A DNA sequence encoding the human beta-amyloid (1-40) sequence was expressed in E. coli.
Sequence:	DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVV
Molecular Mass:	4329.9 Da
Peptide Purity:	>97%
Counter Ion:	NH ₄ OH
Supplied As:	White lyophilized powder.
Resuspension:	Resuspend in 1 % NH ₄ OH, at a concentration of 1 mg/ml. Sonicate for 30 seconds to 1 minute after it has gone into solution. <u>To bring it into your buffer:</u> 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) ¹⁻³ . AD is the most common neurodegenerative disease and afflicts about 10% of the population over 60 ⁴ . Using a proprietary production technique that limits the peptide's conformational changes, rPeptide has produced an ammonium hydroxide beta amyloid counter-ion. The Abeta ammonium hydroxide product can be utilized for <i>in vitro</i> aggregation experiments as well as cell based assays.
References:	1) Yankner, BA, et. al., (1990) Science, 250 : 279-282 2) Selkoe, D.J., (2001) Physiol. Rev, 81 : 741-766 3) Stine, W.B. et. al., (2003) J. Biol. Chem, 278 : 11612-11622 4) Frank, R.A., et. al., (2003) Neurobiology of Aging, 24 : 521-536

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