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## DATA SHEET

<b>Product Name:</b>	Beta-Amyloid (1-42), Ultra Pure, NaOH
<b>Catalog #:</b>	A-1165
<b>Source:</b>	Recombinant. A DNA sequence encoding the human beta-amyloid (1-42) sequence was expressed in E. coli.
<b>Sequence:</b>	<b>D A E F R H D S G Y E V H H Q K L V F F A</b> Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala- <b>E D V G S N K G A I I G L M V G G V V I A</b> Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala
<b>Molecular Mass:</b>	4514.1
<b>Peptide Purity:</b>	>97%
<b>Counter Ion:</b>	NaOH
<b>Supplied As:</b>	White lyophilized powder
<b>Resuspension:</b>	Resuspend in 1 % NH <sub>4</sub> 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.
<b>Storage:</b>	-20 <sup>0</sup> C
<b>Description:</b>	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) <sup>1-3</sup> . AD is the most common neurodegenerative disease and afflicts about 10% of the population over 60 <sup>4</sup> . The abeta NaOH salt is described in Fezoui, et. al. <sup>5</sup> .
<b>References:</b>	1) Yankner, BA, et. al., (1990) Science, <b>250</b> : 279-282 2) Selkoe, D.J., (2001) Physiol. Rev, <b>81</b> : 741-766 3) Stine, W.B. et. al., (2003) J. Biol. Chem, <b>278</b> : 11612-11622 4) Frank, R.A., et. al., (2003) Neurobiology of Aging, <b>24</b> : 521-536 5) Fezoui, Y., et. al. 2000, Amyloid, <b>7</b> : 166

**For research use only. Not for use in humans.**

[www.rpeptide.com](http://www.rpeptide.com)

4241 Mars Hill Road • Bogart • Georgia • 30622 • USA  
Tel 678-753-0747 • Fax 678-753-0746 • E-mail [info@rpeptide.com](mailto:info@rpeptide.com)