## Overview

**Product name**
beta-Amyloid Peptide (1-42) (human)  

**Description**

**Biological description**
42-Residue amyloid beta-protein fragment; the predominant form of amyloid beta found in the brains of people with Alzheimer's disease and Down's syndrome. Neurotoxic. Shown to induce neuronal death via actions at the p75 neurotrophin receptor.  

**Purity**
> 95%  

**CAS Number**
107761-42-2  

**Chemical structure**

```
Asp-Ala-Asp-Arg-His-Asp-Asp-Cys-Tyr-Glu-Val-His-His  
```

## Properties

**Molecular weight**
4514.08  

**Molecular formula**
C\textsubscript{203}H\textsubscript{311}N\textsubscript{55}O\textsubscript{60}S  

**Sequence**
DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVIA  

**PubChem identifier**
57339251  

**Storage instructions**
Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.  

**Solubility overview**
Solubility is batch-dependent. Please refer to the Protocol Booklet and the batch-specific CoA for more information.  

**Handling**
This product is supplied in one (or more) pack size which is freeze dried. Therefore the contents may not be readily visible, as they can coat the bottom or walls of the vial. Please see our FAQs and information page for more details on handling.  

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one week. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.  

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.  

**Source**
Synthetic
Please note: All products are “FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
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