# Data Sheet (Cat.No.T35499)

TargetMol

## β-Amyloid (1-42), rat/mouse TFA

### Chemical Properties

CAS No. :

Formula:

Molecular Weight: 4532.04

Storage: Store at low temperature,Keep away from moisture
Powder: -20°C for 3 years
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | β-Amyloid (1-42), rat/mouse TFA is a 42-amino-acid polypeptide fragment that exhibits neurotoxicity to hippocampal slices and is commonly used to establish Alzheimer's disease models for related research. |
| Targets(IC50) | Others |
| In vitro | β-Amyloid Aggregation Guidelines (This protocol provides only a guideline and should be modified according to your specific needs).<br>Dissolve the solid Aβ peptide in cold hexafluoro-2-propanol (HFIP). Incubate the peptide at room temperature for at least 1 hour to establish monomerization and randomization of the structural formation.Evaporate HFIP to preserve the obtained peptide in a film form at -20 or -80°C.Dissolve the obtained film in anhydrous DMSO (5 mM) and then vortex to dilute it to an appropriate concentration in a buffer (serum-free and phenol red-free medium).Subsequently, age the solution at 4-8°C for 48 hours. Centrifuge the samples at 14,000 g for 10 minutes at 4-8°C; soluble oligomers will be present in the supernatant. Dilute the supernatant 10-200 times for experimental use.The method may vary based on downstream applications. |

### Solubility Information

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|---|---|
| Solubility | DMSO: 50 mg/mL (11.03 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 0.2207 mL | 1.1033 mL | 2.2065 mL |
| 5 mM | 0.0441 mL | 0.2207 mL | 0.4413 mL |
| 10 mM | 0.0221 mL | 0.1103 mL | 0.2207 mL |
| 50 mM | 0.0044 mL | 0.0221 mL | 0.0441 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mozes E, et al. A novel method for the rapid determination of beta-amyloid toxicity on acute hippocampal slices using MTT and LDH assays. Brain Res Bull. 2012 Apr 10;87(6):521-5.
Stefania Sabella, et al. Capillary electrophoresis studies on the aggregation process of beta-amyloid 1-42 and 1-40 peptides. Electrophoresis. 2004 Oct;25(18-19):3186-94.
Lagunes T, et al. Abeta(1-42) induces abnormal alternative splicing of tau exons 2/3 in NGF-induced PC12 cells. An Acad Bras Cienc. 2014 Dec;86(4):1927-34.