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Protocol for re-suspension of Amyloid Beta Peptide 1-42 (HFIP treated)

Catalog No. SPR-485

Dried A β 1-42 peptide has been pre-treated with hexafluoroisopropanol (HFIP) to disrupt any fibrils formed after peptide synthesis. We recommend re-suspended peptide is kept on ice and used immediately to avoid aggregation. While several methods of monomer resuspension are detailed in the literature, we recommend the following protocol for re-suspending 1.0 mg of peptide into a 1 mg/mL solution (scale the protocol appropriately for smaller aliquots):

1. Bring dried peptide to room temperature for 10 minutes.
2. Freshly open a sealed vial of DMSO (Sigma Hybri-Max D2650). *Fresh DMSO is critical as it will absorb water over time, which can affect re-suspension as soluble monomer.*
3. Add 20 μ L fresh DMSO to peptide aliquot, mix well by pipetting up and down. Take care to scrape inside lower walls of tube to ensure complete re-suspension of the film. *Do not store DMSO stock on ice as it will freeze.*
4. Vortex DMSO stock for 10 seconds, bath sonicate for 10 minutes.
5. Add 980 μ L of cold filter sterilized dH₂O. *Optional - Centrifuge monomer 14,000 x g for 5 minutes at 4°C and keep supernatant to remove any material that was not fully re-suspended.*
6. Keep monomer on ice and use immediately.

While it is not recommended, depending on your application, small aliquots ($\leq 50 \mu$ L) can be frozen and kept up to 2 weeks at -80, however aggregate should be removed by centrifugation at 4°C upon thawing.