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## Important Information on your Peptides

Unless ordered otherwise, all peptides are delivered as lyophilized, trifluoroacetic salts. Upon receipt, please prepare single-use aliquots (if necessary) and store the products immediately at  $-20^{\circ}\text{C}$ . Thus, they may remain stable for several years. When working with peptides, be sure to always wear gloves in order to avoid contamination (enzymatic, bacterial, etc.).

Allow the peptide to warm to room temperature (preferably in a desiccator) before dissolving it. Always use sterile water or buffer (PBS, Tris or phosphate, pH 7) for preparation of solutions. For peptides containing cysteine, methionine or tryptophan, that are rapidly susceptible to oxidation, you should use oxygen-free solvents.

As the amino acid composition determines the properties of every individual peptide, we recommend testing solubility with a small amount of product.

If the product proves insoluble in water / buffer due to high hydrophobicity, addition of DMSO (dimethylsulfoxide) may be necessary:

*In such cases dissolve the peptide in the smallest possible volume of a 50% (v/v) DMSO / water mixture and subsequently add water / buffer until the desired concentration is achieved. If product precipitates again during this process and cannot be re-dissolved by adding DMSO, lyophilize the peptide again and attempt solubilization with slightly higher amounts of 50% DMSO than previous attempt.*

*If DMSO interferes with your experimental system, DMF (dimethylformamide) or ACN (acetonitrile) can serve as alternative solvents.*

Solubility can also be facilitated by careful warming (do not exceed  $40^{\circ}\text{C}$ ) or sonification. If you need to increase the pH of the solution, use only very weak bases in order to prevent immediate inactivation by racemisation.

Peptide solutions should be used up immediately as they are unstable (the lower the concentration, the more unstable). As many peptides prove to be light-sensitive, they should be kept from direct light. Repeated thawing and freezing must be avoided. Any remaining solutions should be re-lyophilized for longer storage.

If you have any questions regarding a product, please contact our team

Europe, Middle East, and Africa: [europeservicespeptides@thermofisher.com](mailto:europeservicespeptides@thermofisher.com)

Rest of World (incl. N. America): [peps@thermofisher.com](mailto:peps@thermofisher.com)

<p><b>Attention:</b> The chemical, physical, and toxicological properties of peptides have not been fully investigated. Peptides should be handled only by or under the direct supervision of a technically qualified individual. Please contact us for a copy of the SDS (safety data sheet).</p>
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