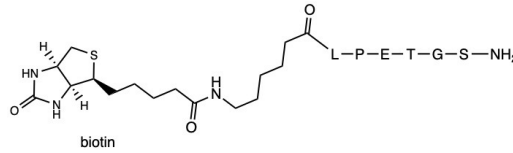


Biotin-Ahx-LPETGS-NH₂



product information

background

Biotin-aminohexanoic acid-LPETGS-NH₂ is a synthetic peptide commonly used in sortase A-mediated transpeptidation assays and proximity-based studies of cell interactions, particularly in the LIPSTIC (Labeling Immune Partnerships by SorTagging Intercellular Contacts) methodology.

The LPETGS motif is part of the LPXTG sequence family, which is recognized by Sortase A (SrtA) from *Staphylococcus aureus*. This membrane-associated enzyme specifically cleaves between the threonine and glycine residues within the LPXTG motif. This reaction produces a reactive thioester intermediate, which can be targeted by an oligoglycine nucleophile, allowing for the site-specific ligation of biomolecules.

how to dissolve

For dissolving the peptide, we recommend using sterile distilled (or deionized) water or phosphate-buffered saline (PBS) at pH 7.2, achieving your desired stock concentration.

****Important Note:**** Do not prepare the stock solution at a concentration greater than 10 mg/mL, as higher concentrations may not dissolve completely.

application information

After dissolution, aliquot the stock solution and avoid repeated freeze-thaw cycles.

long-term storage

Store any unused lyophilized peptide at -20 °C (or preferably -80 °C) in a sealed, desiccated container.

Avoid storing the peptide in solution form for long periods; it is best to prepare fresh solutions or store aliquots at low temperatures.

additional information

Before opening the lyophilized vial, allow it to come to room temperature in a desiccator to minimize moisture condensation.