

## May 04, 2022

## NA-lipophilic Ligand Conjugates Synthesis

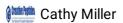
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dx.doi.org/10.17504/protocols.io.81wgb652qlpk/v1

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Lipophilic ligands are a class of substances suitable for cell transport, they are lipids with a certain hydrophilic-lipophilic balance. When transported across the cell membrane, the hydrophilic end faces the extracellular water-soluble environment, and the hydrophobic end faces the cell membrane. A typical representative of this modification is the covalent attachment of bile acid and cholesterol to PNA. The conjugate also has a certain liver-targeting effect in vivo and has the potential to develop into a liver-targeted preparation.

The covalent binding of PNA with hydrophobic compounds or lipids has some excellent properties. For example, by connecting a hydrophobic long carbon chain to the N-terminus of PNA and amino acid residues to the C-terminus, the conjugate has good hydrophilicity and lipophilicity, and shows better specificity when hybridizing with DNA. The conjugate can also self-assemble into spherical micelles, and has application potential in biosensors, gene drugs, etc. PNA-lipophilic ligand conjugate also shows good performance in cell transport.

Creative Peptideshas completed many PNA conjugate synthesis cases. Based on these projects, our team has accumulated a deep understanding of product requirements. With rich experience and scientific knowledge, our experts are dedicated to helping our customers navigate and accelerate your PNA synthesis plan. By combining scientific knowledge and laboratory experience, we are committed to expanding your understanding and applications of PNA conjugates. Pleasecontact us to learn more.

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https://pna.creative-peptides.com/services/pna-lipophilic-ligand-conjugates-synthesis.html



Cathy Miller 2022. PNA-lipophilic Ligand Conjugates Synthesis. **protocols.io** https://dx.doi.org/10.17504/protocols.io.81wgb652qlpk/v1

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