Solid-Phase Synthesis of PEGylated Lipopeptides Using Click Chemistry

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A versatile methodology for efficient synthesis of PEGylated lipopeptides via CuAAC “Click” conjugation between alkyne-bearing solid-supported lipopeptides and azido-functionalized PEGs is described. This new and very robust method offers a unique platform for synthesizing PEGylated lipopeptides with a high level of complexity. These molecules, obtained in a single purification step, are ideally suited for functionalization of solid-supported lipid bilayers and liposomal drug delivery systems and are particularly valuable in enzyme activation strategies.

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