

# Cetyl Palmitate

Catalog Number: 14502

## DESCRIPTION

Cetyl palmitate, also known as hexadecyl hexadecanoate, is a naturally occurring waxy lipid used to formulate solid lipid nanoparticles (SLNs). SLNs are nano-sized particles composed of certain lipids, like waxes, that are solid at room and body temperature. SLNs are advantageous over other drug delivery systems due to the inherent biocompatibility of the materials used for formulation. Cetyl palmitate, in combination with other two-tailed lipids, has been effectively utilized for transfection as well as other types of drug delivery in a variety of cell lines.

## SPECIFICATIONS

CAS Number	540-10-3
Purity	>97%
Molecular Weight	412.69
Appearance	solid
Storage	2-8°C

## PREPARATION

Stock solutions of cetyl palmitate can be prepared by dissolving in pre-heated organic solvent of choice. Cetyl palmitate is soluble in acetone and slightly soluble in chloroform and methanol. Once formulated, the stock solution can be stored at -20°C for up to 1 month. Before use, ensure that the stock solution returns to room temperature.

