

Palmitic Acid

Catalog Number: 14501

DESCRIPTION

Palmitic acid is a naturally occurring saturated fatty acid that has been shown to have high transfection efficiency for the delivery of plasmids and mRNA in a variety of cell types. It can also be used as a supplement in cell culture systems to improve the growth and viability in Chinese Hamster Ovary (CHO) cells and other mammalian eukaryotic cells.

SPECIFICATIONS

CAS Number	57-10-3
Purity	>99%
Molecular Weight	256.43
Appearance	Powder
Storage	Room temperature
Formula	$C_{16}H_{32}O_2$

PREPARATION

Stock solutions of palmitic acid can be prepared by dissolving in organic solvent of choice. Palmitic acid is readily soluble in ethanol, DMSO (30 mg/mL), and DMF (20 mg/mL). The stock solution of palmitic acid can be stored at -20°C for up to a month. For the preparation of cell culture media, the stock solution of palmitic acid can be dissolved in 0.1M NaOH to reach the desired concentration.

