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(C16) Hexadecanoylcarnitine

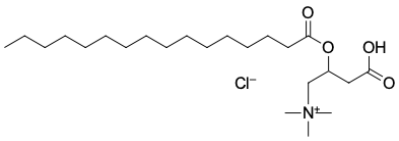
http://cn.lumiprobe.com/p/hexadecanoylcarnitine-18877-64-0

Hexadecanoylcarnitine, also called as palmitoyl-L-carnitine, is an endogenous acylcarnitine and acts as a key energy donor for β-oxidation. Hexanoylcarnitine chloride is used as an analytical standard in HPLC-MS and MS/MS studies.

Hexanoylcarnitine has surface activity, has a diphilic character and has detergent properties. Hexanoylcarnitine has surface activity, is diphilic and has detergent properties. Hexanoylcarnitine promotes the transfer of long-chain fatty acids from cytoplasm to mitochondria during fatty acid oxidation. The substance accumulates in the myocardium during ischemia and affects the levels of phosphate and free fatty acids in the myocardium and on the myocardial vascular endothelium. In experimental models, palmitoyl-L-carnitine levels increased with age and induced mitochondrial dysfunction in neurons.

Palmitoyl-L-carnitine may be used as an analytical standard to quantify the analyte in biological samples of patients with continuous ambulatory peritoneal dialysis (CAPD) or automated peritoneal dialysis (APD) using HPLC-MS. It may also be used as an analytical reference standard for the separation and identification of underivatized palmitoyl-L-carnitine in human plasma samples.

The product is used primarily as a control for MS/MS.



外观:	白色固体
分子量:	436.07
CAS 编号:	18877-64-0
分子式:	$C_{23}H_{46}ClNO_4$
溶解度:	DMF，DMSO，乙醇
质量控制:	NMR ^{1}H和HPLC-MS（95+%）
储存条件:	收到后 -20°C 避光保存 24 个月。运输：室温下最多可保存3周。干燥。
法律声明:	本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试，且未经明示或暗示授权用于其他任何用途，包括但不限于体外诊断、人类或动物用途，以及商业用途 。