

## (C18) Octadecanoylcarnitine

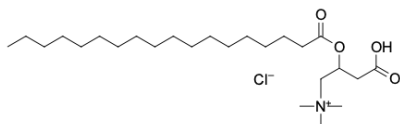
<http://hk.lumiprobe.com/p/octadecanoylcarnitine>

Octadecanoyl-L-carnitine, also known as stearyl-L-carnitine is a naturally occurring long-chain acylcarnitine. The substance may be used as an analytical reference standard for MS-MS and chromatography-based techniques.

Octadecanoylcarnitine acts as a carrier of long-chain acyl groups from activated fatty acids across the inner mitochondrial membrane, for their further oxidation in the mitochondria. Octadecanoylcarnitine inhibits sodium-dependent reabsorption of carnitine in human proximal convoluted tubular (HPCT) cells in the kidney.

Plasma levels of octadecanoylcarnitine are decreased in patients with chronic fatigue syndrome, Alzheimer's disease and increased in patients with end-stage renal failure, as well as may be increased in congenital diseases such as celiac disease. Octadecanoylcarnitine is an inhibitor of glycine transporter 2 (GlyT2).

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



外观: 白色固體

分子量: 464.12

CAS 编号: 32350-57-5

分子式:  $C_{25}H_{50}ClNO_4$

溶解度: DMF, DMSO, 乙醇

质量控制: NMR  $^1H$ 和HPLC-MS (95+ %)

储存条件: 收到後 -20°C 避光保存 24 個月。運輸: 室溫最多可保存3週。乾燥。

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