

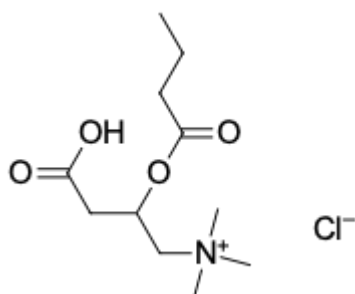
(C4) Butyrylcarnitine

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

Butyrylcarnitine, also known as (3R)-3-(butyryloxy)-4-(trimethylammonio)butanoate or L-carnitine butyryl ester, is classified as a member of the acylcarnitines. Acylcarnitines are organic compounds containing a fatty acid with the carboxylic acid attached to carnitine through an ester bond. Butyrylcarnitine may be used as an analytical reference standard for the separation and identification of underivatized butyryl-L-carnitine in human plasma samples using high-performance liquid chromatography coupled to tandem mass spectrometry (HPLC-MS/MS).

Butyrylcarnitine can be used to study its role in energy production and its metabolic effects, to understand metabolic diseases and conditions associated with mitochondrial dysfunction. Butyrylcarnitine is a major biological marker of short-chain acyl-CoA dehydrogenase deficiency, glutaric acidemia type II and isobutyrylglycinuria, and ethylmalonic encephalopathy.

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



外观: 白色固體

分子量: 267.75

CAS 编号: 162067-50-7 (chloride), 25576-40-3 (inner salt)

分子式: $C_{11}H_{22}ClNO_4$

溶解度: DMSO, DMF, 乙醇

质量控制: NMR 1H 和HPLC-MS (95+%)

储存条件: 接收後24個月在黑暗中-20°C。運輸: 在室溫下最多3週。乾燥。

法律声明: 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試, 且未經明示或暗示授權用於其他任何用途, 包括但不限於體外診斷、人類或動物用途, 以及商業用途。