

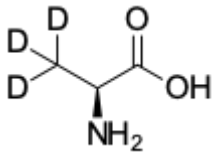
## L-Alanine-d3

<http://cn.lumiprobe.com/p/l-alanine-d3>

L-Alanine-d3 is the deuterium-labeled L-alanine and is intended for use as an analytical reference standard in LC-MS/MS.

Alanine is one of the principal amino acid substrates for hepatic gluconeogenesis and ureagenesis. Alanine is produced in peripheral tissues in transamination processes with glutamate, branched-chain amino acids, and other amino acids; following its release in the systemic circulation, alanine is predominantly taken up by the liver and to a lesser extent by the kidney. High alanine levels (hyperalaninemia) could be a marker for liver disease, diabetes mellitus, muscle breakdown, or genetic disorders like pyruvate dehydrogenase deficiency and alanine-glyoxylate aminotransferase 2 (AGXT2) deficiency. Low level of alanine (hypoalaninemia) could be marker of hypoglycemia or ketoacidosis.

Quantification of this important metabolite and biomarker in dried blood samples can be performed most efficiently by LC-MS/MS using Alanine-d3 as a standard.



外观

分子 92.11

子量

分子式  $C_3H_4D_3NO_2$

溶解度

溶解度

质量

控制 NMR  $^1H$  和 HPLC-MS (95+%, D: 98+%)

储存

条件

说明

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。

声明