



LKT Laboratories, Inc.

D,L- α -Lipoic Acid

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Product Information

Product ID L3561

CAS No. 1077-28-7

Chemical Name 1,2-Dithiolane-3-pentanoic acid

Synonym D,L-Thioctic acid

Formula C₈H₁₄O₂S₂

Formula Wt. 206.33

Melting Point 60-62 °C

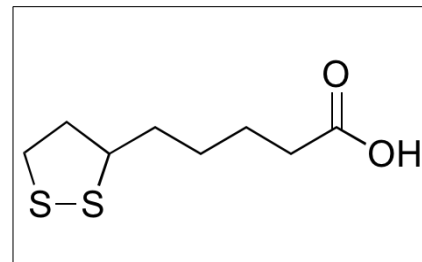
Purity ≥98%

Solubility Insoluble in water. Soluble
in fat solvents.

Store Temp 4 °C

Ship Temp Ambient

Description Thioctic/lipoic acid is an endogenous organosulfur that exhibits antioxidative activity. This compound is commercially used as a dietary supplement and can be found in meat and leafy vegetables. Thioctic/lipoic acid is required for aerobic metabolism and functions as a cofactor for the pyruvate dehydrogenase complex. In vitro, this compound increases activation of phase II enzymes and scavenges ROS and RNS, protecting against oxidative stress.



Bulk quantities available upon request

Product ID	Size
L3561	1 g
L3561	5 g
L3561	25 g

References Shay KP, Moreau RF, Smith EJ, et al. Alpha-lipoic acid as a dietary supplement: molecular mechanisms and therapeutic potential. *Biochim Biophys Acta*. 2009 Oct;1790(10):1149-60. PMID: 19664690.

Petersen Shay K, Moreau RF, et al. Is alpha-lipoic acid a scavenger of reactive oxygen species in vivo? Evidence for its initiation of stress signaling pathways that promote endogenous antioxidant capacity. *IUBMB Life*. 2008 Jun;60(6):362-7. PMID: 18409172.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.