



LKT Laboratories, Inc.

Niacin

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Product Information

Product ID N3301

CAS No. 59-67-6

Chemical Name Nicotinic acid

Synonym Nicotinic Acid, Vitamin B3, 3-Picolinic Acid

Formula C₆H₅NO₂

Formula Wt. 123.11

Melting Point 236.6 °C

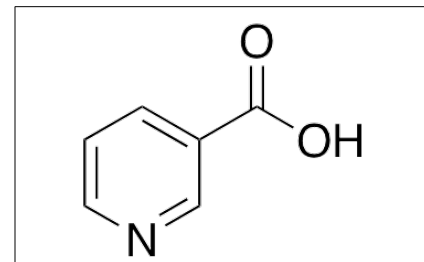
Purity ≥98%

Solubility Soluble in water (16 mg/mL). Soluble in ethanol (10 mg/mL). Soluble in DMSO (25 mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Niacin is a water-soluble vitamin of the B complex occurring in various animal and plant tissues; it is required by the body for the formation of coenzymes NAD and NADP. Niacin displays anti-dyslipidemic and cardioprotective properties, although various studies show mixed benefits in vivo and in clinical settings. Niacin binds to the G-protein coupled receptor 109A (GPR109A), increasing arachidonic acid levels and prostaglandin synthesis and signaling, resulting in cutaneous vasodilation and flushing. Niacin decreases surface expression of hepatic ATP synthase β, decreasing catabolism of HDL and increasing serum HDL levels. Additionally, niacin inhibits hepatic diacylglycerol acyltransferase-2, inhibiting synthesis of triglyceride and decreasing apolipoprotein B-containing lipoproteins; this results in decreased secretion of VLDL and LDL.



Bulk quantities available upon request

Product ID	Size
N3301	10 g
N3301	50 g

References Creider JC, Hegele RA, Joy TR. Niacin: another look at an underutilized lipid-lowering medication. *Nat Rev Endocrinol.* 2012 Sep;8(9):517-28. PMID: 22349076.

Kamanna VS, Ganji SH, Kashyap ML. The mechanism and mitigation of niacin-induced flushing. *Int J Clin Pract.* 2009 Sep;63(9):1369-77. PMID: 19691622.

Kamanna VS, Ganji SH, Kashyap ML. Niacin: an old drug rejuvenated. *Curr Atheroscler Rep.* 2009 Jan;11(1):45-51. PMID: 19080727.

Kamanna VS, Kashyap ML. Mechanism of action of niacin. *Am J Cardiol.* 2008 Apr 17;101(8A):20B-26B. PMID: 18375237.

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