



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

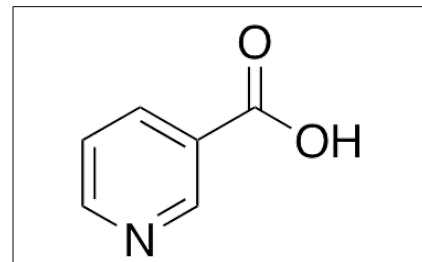
Formula C₆H₅NO₂

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).



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
N3301	10 g	\$37.80
N3301	50 g	\$46.00

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.

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.