



LKT Laboratories, Inc.

1-Deoxynojirimycin

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID D178589

CAS No. 19130-96-2

Chemical Name (2R,3R,4R,5S)-2-(hydroxymethyl)piperidine-3,4,5-triol

Synonym Moranolin, 1,5-Dideoxy-1,5-imino-D-sorbitol

Formula C₆H₁₃NO₄

Formula Wt. 163.17

Melting Point

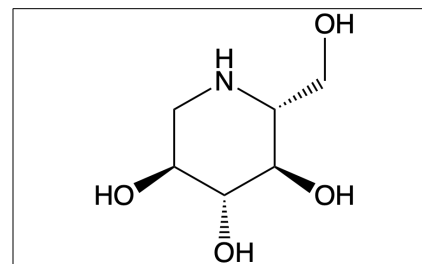
Purity ≥98%

Solubility

Store Temp -20°C

Ship Temp Ambient

Description 1-Deoxynojirimycin is an alkaloid found in mulberry leaves. It has been found to be important in carbohydrate and lipid metabolism in addition to several other physiological processes.



Bulk quantities available upon request

Product ID	Size
D178589	5 mg
D178589	25 mg
D178589	100 mg
D178589	500 mg

References Wang M, Feng Y, Li T, et al. The effects of 1-deoxynojirimycin from mulberry on oxidative stress and inflammation in laying hens and the direct effects on intestine epithelium cells in vitro. *Animals (Basel)*. 2023 Sep 6;13(18):2830. PMID: 37760230

Wen F, Dai P, Song Z, et al. Alleviating effect of mulberry leaf 1-deoxynojirimycin on resistin-induced hepatic steatosis and insulin resistance in mice. *J Physiol Pharmacol*. 2022 Dec;73(6). PMID: 37087566

Fongsodsri K, Thaipitakwong T, Rujimongkon K, et al. Mulberry-derived 1-deoxynojirimycin prevents type 2 diabetes mellitus progression via modulation of retinol-binding protein 4 and haptoglobin. *Nutrients*. 2022 Oct 28;14(21):4538. PMID: 36364802

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