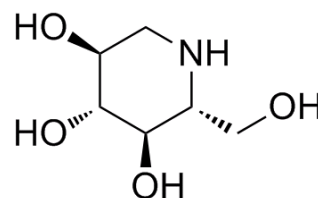


Data Sheet

Product Name:	1-Deoxynojirimycin
Cat. No.:	HY-14860
CAS No.:	19130-96-2
Molecular Formula:	C ₆ H ₁₃ NO ₄
Molecular Weight:	163.17
Target:	Others
Pathway:	Others
Solubility:	H ₂ O: ≥ 34 mg/mL



BIOLOGICAL ACTIVITY:

1-Deoxynojirimycin (DNJ, Duvoglustat) is a potent α -glucosidase inhibitor, suppresses postprandial blood glucose, thereby possibly preventing diabetes mellitus.

Target: α -glucosidase

1-Deoxynojirimycin is an alpha-glucosidase inhibitor, most commonly found in mulberry leaves. Although it can be obtained in small quantities by brewing an herbal tea from mulberry leaves, interest in commercial production has led to research on developing mulberry tea higher in DNJ, and on alternate routes of production, such as via *Bacillus* species.

References:

[1]. Chaluntorn Vichasilp, et al. Development of high 1-deoxynojirimycin (DNJ) content mulberry tea and use of response surface methodology to optimize tea-making conditions for highest DNJ extraction. *LWT – Food Science and Technology*. Volume 45, Issue 2, March 2012, Pages 226–232

Caution: Product has not been fully validated for medical applications. For research use only.

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