

## Deoxynojirimycin hydrochloride Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Deoxynojirimycin hydrochloride

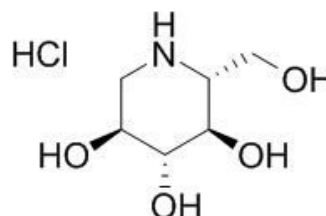
**Catalog No.:** CFN90484

**Cas No.:** 73285-50-4

**Purity:** >=98%

**M.F:** C<sub>6</sub>H<sub>14</sub>ClNO<sub>4</sub>

**M.W:** 199.6



**Physical Description:** Powder

**Synonyms:** (1R,3R,4R,5S)-3,4,5-trihydroxy-2-(hydroxymethyl)piperidinium chloride;

(+)-1-Chlor-8,9-dihydro-inden; 1H-Indene, 1-chloro-3a,7a-dihydro; 1,5-dideoxy-1,5-imino-D-glucitol hydrochloride; (+)-1-deoxynojirimycin hydrochloride.

### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The root barks of *Morus alba* L.

## **[ Biological Activity or Inhibitors ]**

1-Deoxynojirimycin hydrochloride shows inhibitory activity against  $\alpha$ -glucosidases, inhibitors of  $\alpha$ -glucosidase are promising candidates for the development of antitype II diabetics and anti-AIDS drugs.<sup>[1]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: 0.1% Acetic acid in water- Acetonitrile=50:50 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 254 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Ma C M, Hattori M, Daneshtalab M, *et al. J. Med. Chem.*, 2008, 51(19):6188-94.

[2] Bajpai S., Rao AVB. *Journal of Pharmacognosy and Phytochemistry*, 2014; 3 (3):17-2

## **[ Contact ]**

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