



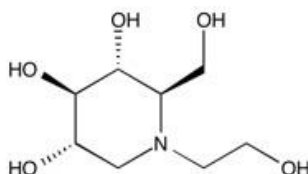
## Catalog # 10-2332

### Miglitol

CAS# 72432-03-2

(2R,3R,4R,5S)-1-(2-Hydroxyethyl)-2-(hydroxymethyl)piperidine-3,4,5-triol  
N-(2-Hydroxyethyl)-1-deoxynojirimycin; BAY-1099

Lot # Z105503



An  $\alpha$ -glucosidase inhibitor which induces an enhanced and prolonged release of glucagon-like peptide-1, regulating appetite and stabilizing body weight in humans<sup>1</sup>. Displays anti-atherothrombotic effect by reducing platelet activation<sup>2</sup> and raising circulating adiponectin levels<sup>3</sup> in patients with type 2 diabetes. Clinically useful antidiabetic agent.

- 1) Lee *et al.* (2002), *The effects of miglitol on glucagon-like peptide-1 secretion and appetite sensations in obese type 2 diabetics*; Diabetes Obes. Metab., **4** 329
- 2) Nomura *et al.* (2011), *Effects of miglitol in platelet-derived microparticle, adiponectin, and selectin level in patients with type 2 diabetes mellitus*; Int. J. Gen. Med., **4** 539
- 3) Yokoyama *et al.* (2007), *Miglitol increases the adiponectin level and decreases urinary albumin excretion in patients with type 2 diabetes mellitus*; Metabolism, **56** 1458

### PHYSICAL DATA

Molecular Weight:	207.23
Molecular Formula:	C <sub>8</sub> H <sub>17</sub> NO <sub>5</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml with warming) or Water (up to 60 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

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