Product Name: Voglibose
CAS Number: 83480-29-9
IUPAC Name: 3,4-Dideoxy-4-[[2-hydroxy-1-(hydroxymethyl)ethyl]amino]-2-C-(hydroxymethyl)-D-epi-inositol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{10}H_{21}NO_{7}
Batch Molecular Weight: 267.28
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 75 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

Melting Point: Between 163 - 164°C

$^1$H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D = +21.8$ (Concentration = 1, Solvent = Water)

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
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<tbody>
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**Product Name:** Voglibose  
**Catalog No.:** 3596  
**Batch No.:** 1

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**IUPAC Name:** 3,4-Dideoxy-4-[[2-hydroxy-1-(hydroxymethyl)ethyl]amino]-2-C-(hydroxymethyl)-D-epi-inositol

**Description:**  
Orally active α-glucosidase inhibitor (IC₅₀ values are 3.9 and 6.4 nM at sucrase and maltase respectively). Increases glucagon-like peptide 1 (GLP-1) secretion and decreases food consumption in ob/ob mice, and reduces plasma concentrations of glucose, triglycerides and insulin in Wistar fatty rats. Exhibits antidiabetic and antiobesity activity in vivo.

**Physical and Chemical Properties:**  
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- **Physical Appearance:** White solid

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**Solubility & Usage Info:**  
- water to 100 mM  
- DMSO to 75 mM

**Stability and Solubility Advice:**  
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath). Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are: SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt. SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**  