

**Product Name:** C34

**Catalog No.:** 5373

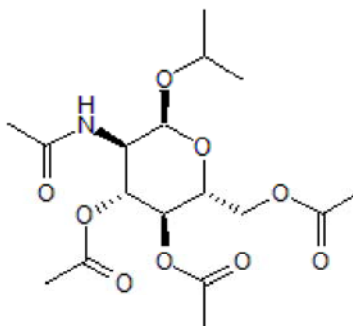
**Batch No.:** 2

CAS Number: 40592-88-9

IUPAC Name: 1-Methylethyl 2-(acetylamino)-2-deoxy- $\alpha$ -D-glucopyranoside 3,4,6-triacetate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>27</sub>NO<sub>9</sub>  
**Batch Molecular Weight:** 389.4  
**Physical Appearance:** White solid  
**Solubility:** water to 50 mM  
DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**Melting Point:** Between 150 - 151°C  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 52.44  | 6.99     | 3.6      |
| Found       | 52.56  | 6.97     | 3.58     |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

TLR4 inhibitor; attenuates TLR4 signaling in enterocytes and macrophages in vitro, and reduces systemic inflammation in mouse models of endotoxemia and necrotizing enterocolitis (NEC). Also suppresses LPS signaling in human ileum displaying NEC ex-vivo. Displays no significant effects on signaling via TLR2 or TLR9.

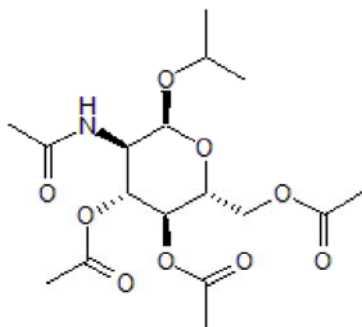
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>17</sub>H<sub>27</sub>NO<sub>9</sub>

Batch Molecular Weight: 389.4

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 50 mM

DMSO to 100 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:**

Neal *et al* (2013) Discovery and validation of a new class of small molecule Toll-like receptor 4 (TLR4) inhibitors. PLoS One **8** e65779. PMID: 23776545.

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