Product Name: Everolimus
Catalog No.: 6188
Batch No.: 1
CAS Number: 159351-69-6
IUPAC Name: 42-O-(2-Hydroxyethyl)rapamycin

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{53}H_{83}NO_{14}
Batch Molecular Weight: 958.22
Physical Appearance: White solid
Solubility: DMSO to 100 mM, ethanol to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
^{1}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
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<th>Element</th>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** Everolimus  
**Catalog No.:** 6188  
**Batch No.:** 1

**CAS Number:** 159351-69-6  
**IUPAC Name:** 42-O-(2-Hydroxyethyl)rapamycin

**Description:**
mTOR inhibitor. Inhibits tumor proliferation in vitro and in vivo. Inhibits VEGF-induced HUVEC proliferation in vitro, but does not affect tumor vascular permeability in mouse models. Immunosuppressant. Activates autophagy.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{39}H_{48}NO_{15}
- **Batch Molecular Weight:** 958.22
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Storage:** Store at -20°C

**Solubility & Usage Info:**
- DMSO to 100 mM
- Ethanol 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:**
- **Lane et al (2009)** mTOR inhibitor RAD001 (everolimus) has antiangiogenic/vascular properties distinct from a VEGFR tyrosine kinase inhibitor. Clin.Cancer Res. 15 1612. PMID: 19223496.