

Product Name: Everolimus

Catalog No.: 6188

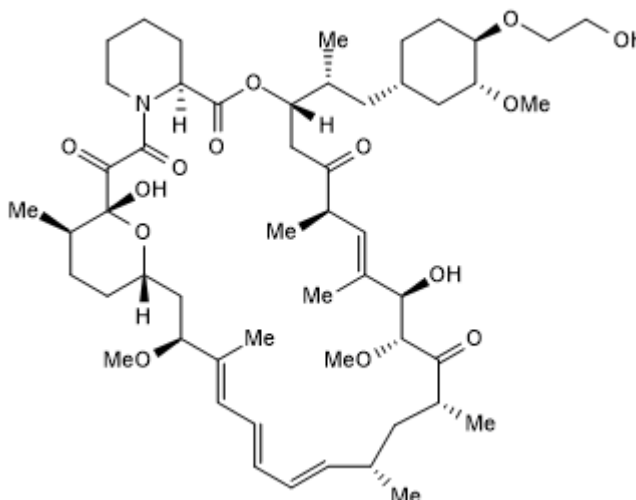
Batch No.: 1

CAS Number: 159351-69-6

IUPAC Name: 42-O-(2-Hydroxyethyl)rapamycin

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₃H₈₃NO₁₄
Batch Molecular Weight: 958.22
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

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

	Carbon	Hydrogen	Nitrogen
Theoretical	66.43	8.73	1.46
Found	66.04	8.73	1.27

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

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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:

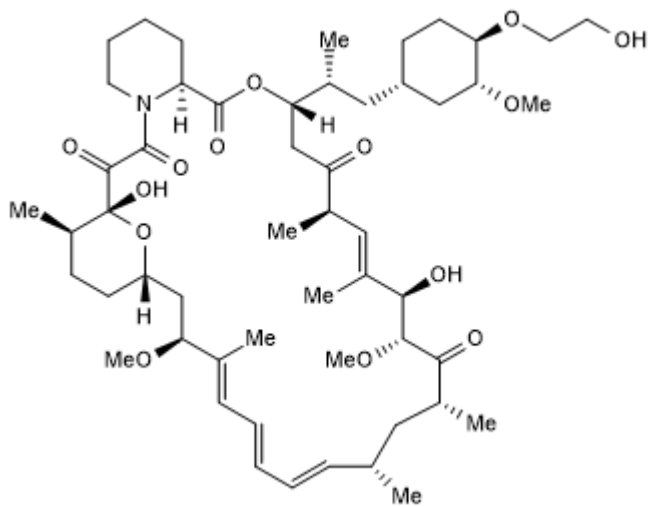
Batch Molecular Formula: C₅₃H₈₃NO₁₄

Batch Molecular Weight: 958.22

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



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:

Galluzzi et al (2017) Pharmacological modulation of autophagy: therapeutic potential and persisting obstacles. *Nat.Rev.Drug.Discov.* . PMID: 28529316.

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.

Sedrani et al (1998) Chemical modification of rapamycin: the discovery of SDZ RAD. *Transplant Proc.* **30** 2192. PMID: 9723437.

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