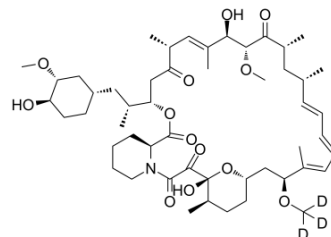


Rapamycin-d3

Cat. No.:	HY-10219S
CAS No.:	392711-19-2
Molecular Formula:	C ₅₁ H ₇₆ D ₃ NO ₁₃
Molecular Weight:	917.19
Target:	mTOR; FKBP; Autophagy
Pathway:	PI3K/Akt/mTOR; Apoptosis; Autophagy; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Rapamycin-d3 (Sirolimus-d3) is the deuterium labeled Rapamycin. Rapamycin is a potent and specific mTOR inhibitor with an IC₅₀ of 0.1 nM in HEK293 cells. Rapamycin binds to FKBP12 and specifically acts as an allosteric inhibitor of mTORC1^[1]. Rapamycin is an autophagy activator, an immunosuppressant^[2].

REFERENCES

- [1]. Edwards SR, et al. The rapamycin-binding domain of the protein kinase mammalian target of rapamycin is a destabilizing domain. *J Biol Chem*, 2007, 282(18), 13395-13401.
- [2]. Rangaraju S, et al. Rapamycin activates autophagy and improves myelination in explant cultures from neuropathic mice. *J Neurosci*. 2010 Aug 25;30(34):11388-97.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA