

Product Name : Rapamycin

Synonyms : Sirolimus

Cat No. : M14886

CAS Number : 53123-88-9

Molecular Formula : C₅₁H₇₉NO₁₃

Formula Weight : 914.17

Chemical Name : Rapamycin

Description : A macrolide compound that has potent immunosuppressive and antiproliferative properties by inhibiting mTOR (IC₅₀=0.1 nM). Other Indication Approved

Pathway : PI3K/Akt/mTOR signaling

Target : mTOR

Receptor : mTOR

Solubility : DMSO: ≥ 28 mg/mL

SMILES : C[C@@H](C([C@H](OC)[C@H](O)C(C)=C[C@@H](C)C[C@@H]([C@H](C)C[C@@H]1CC[C@@H](O)C(OC)C1)OC2=O)=O)C[C@H](C)/C=C/C=C/C(C)/[C@@H](OC)C[C@H]3O[C@](C(C(N4[C@H]2CCCC4)=O)=O)(O)[C@H](C)CC3

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Morris RE, et al. Transplant Proc. 1991 Feb;23(1 Pt 1):521-4. | 2. Dumont FJ, et al. J Immunol. 1990 Jan 1;144(1):251-8. | 3. Dumont FJ, et al. J Immunol. 1990 Feb 15;144(4):1418-24. | 4. Edwards SR, et al. J Biol Chem. 2007 May 4;282(18):13395-401.

