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Product Information

Product ID D183734 CAS No. 151519-50-5

Chemical Name 7-O-Desmethyl Rapamycin

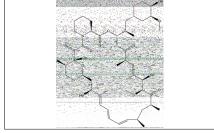
Synonym 7-0-Demethyl Sirolimus; 7-0-demethyl rapamycin; 7-0-Desmethyl Sirolimus;

Novolimus

Formula C₅₀H₇₇NO₁₃ Formula Wt. 900.15

Melting Point

Purity ≥85% Solubility



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
D183734	2.5 mg	\$630.90
D183734	5 mg	\$1021.40
D183734	10 mg	\$1742.50
D183734	25 ma	\$3004.40

Store Temp -80°C Ship Temp Ambient

Description 7-0-Desmethyl Rapamycin is an impurity of rapamycin. Rapamycin is a macrolide initially produced by *Streptomyces* that exhibits immunosuppressive and pro-fibrotic activities. Rapamycin inhibits mTOR by binding FKBP12 and forming a complex that binds directly to mTOR; it is clinically used to prevent rejection in organ transplant patients. Rapamycin prevents IL-2-induced activation of T cells and B cells. Rapamycin also prevents IgA nephropathy, decreasing IgA deposition, inhibiting cell proliferation, and suppressing expression of α -SMA, type III collagen, PDGF, and TGF-81. Additionally, rapamycin increases connective tissue growth factor levels in epithelial cells.

References Klintmalm GB, Nashan B. The Role of mTOR Inhibitors in Liver Transplantation: Reviewing the Evidence. J Transplant. 2014;2014:845438. PMID: 24719752.

> Tian J, Wang Y, Zhou X, et al. Rapamycin slows IgA nephropathy progression in the rat. Am J Nephrol. 2014;39(3):218-29. PMID: 24603476.

Xu X, Wan X, Geng J, et al. Rapamycin regulates connective tissue growth factor expression of lung epithelial cells via phosphoinositide 3-kinase. Exp Biol Med (Maywood). 2013 Sep;238(9):1082-94. PMID: 23986222.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.