



LKT Laboratories, Inc.

Pimecrolimus

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## Product Information

**Product ID** P3348

**CAS No.** 137071-32-0

**Chemical Name** 33-epi-chloro-33-desoxyascomycin

**Synonym** 33-epi-chloro-33-desoxyascomycin; Elidel; SDZ-ASM 981; SDZ ASM 981; SDZ-ASM-981; Picrolimus; ASM981; ASM-981; ASM 981

**Formula** C<sub>43</sub>H<sub>66</sub>ClNO<sub>11</sub>

**Formula Wt.** 810.45

**Melting Point**

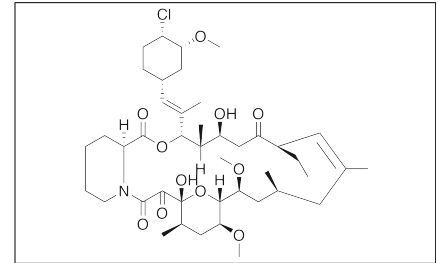
**Purity** ≥99%

**Solubility** Soluble in DMSO (25 mg/mL). Soluble in ethanol (25 mg/mL).  
Soluble in chloroform, methanol.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Pimecrolimus is a calcineurin inhibitor that exhibits immunosuppressive, anti-inflammatory, and antinociceptive activities. Pimecrolimus prevents calcineurin from dephosphorylating nuclear factor of activated T cells (NF-AT), inhibiting T cell signaling; this inhibition of T cell signaling also prevents release of pro-inflammatory cytokines. Pimecrolimus is clinically used to treat inflammatory skin diseases such as cutaneous lupus erythematosus and contact dermatitis. This compound also displays some antinociceptive properties and may desensitize transient receptor potential vanilloid receptor 1 (TRPV1) channels in skin sensory neurons.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
P3348	1 mg	\$57.20
P3348	5 mg	\$107.20
P3348	25 mg	\$357.70

**References** Xie ZQ, Lan YZ. Effectiveness of pimecrolimus cream for women patients with sensitive skin and its underlying mechanism. Zhongguo Yi Xue Ke Xue Yuan Xue Bao. 2012 Aug;34(4):375-8. PMID: 22954121.

Lampropoulos CE, D'Cruz DP. Topical calcineurin inhibitors in systemic lupus erythematosus. Ther Clin Risk Manag. 2010 Apr 15;6:95-101. PMID: 20421909.

Hultsch T, Kapp A, Spergel J. Immunomodulation and safety of topical calcineurin inhibitors for the treatment of atopic dermatitis. Dermatology. 2005;211(2):174-87. Review. Erratum in: Dermatology. 2005;211(3):292. PMID: 16088174.

Lipozencić J. Pimecrolimus--a safe and effective local immunomodulator in the treatment of inflammatory skin diseases. Acta Dermatovenerol Croat. 2005;13(1):63-9. PMID: 15788149.

Gupta AK, Chow M. Pimecrolimus: a review. J Eur Acad Dermatol Venereol. 2003 Sep;17(5):493-503. PMID: 12941081.

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