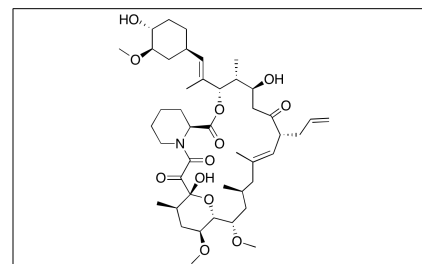


Product Information

Product ID T0008
CAS No. 104987-11-3
Chemical Name 3S,4R,5S,8R,9E,12S,14S,15R,16S,18R,19R, 26aS)
5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26a-hexadecahydro-5,19-
dihydroxy-3-(2-(4-hydroxy-3-methoxycyclohexyl)-14,16-dimethoxy
Synonym FK-506, Fujimycin, Prograf, Protopic, CCRIS 7124.



Formula C₄₄H₆₉NO₁₂
Formula Wt. 804.02
Melting Point 126-130 °C
Purity ≥98%
Solubility Soluble in DMSO (20
mg/ml), ethanol (30
mg/ml), acetone, ethyl
acetate, diethyl ether or
chloroform
Store Temp Ambient
Ship Temp Ambient

Description Tacrolimus is a calcineurin inhibitor that exhibits immunosuppressive, anti-fibrotic, anti-inflammatory, and anti-allergic activities. Clinically, tacrolimus is used to treat atopic dermatitis and conjunctivitis. In vivo, tacrolimus inhibits synthesis of type I collagen polypeptides and the interaction between LARP6 and FKBP3, suppressing the development of alcohol-induced liver fibrosis. In animal models of OVA-induced allergy, tacrolimus decreases allergic symptoms and levels of IgE, eosinophils, IL -5, and GATA-3.

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T0008	1 mg	\$33.10
T0008	5 mg	\$55.10
T0008	25 mg	\$176.40
T0008	100 mg	\$463.10

References Carr WW. Topical calcineurin inhibitors for atopic dermatitis: review and treatment recommendations. *Paediatr Drugs*. 2013 Aug;15(4):303-10. PMID: 23549982.

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Grigoriu S, Bond R, Cossio P, et al. The molecular mechanism of substrate engagement and immunosuppressant inhibition of calcineurin. *PLoS Biol*. 2013;11(2):e1001492. PMID: 23468591.

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