



# FK506 (Tacrolimus) PRODUCT DATA SHEET

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<b>Product Name:</b>	FK506 (Tacrolimus)
<b>Product Number:</b>	F001
<b>CAS Number:</b>	109581-93-3
<b>Molecular Formula:</b>	$C_{44}H_{69}NO_{12}$
<b>Molecular Weight:</b>	804.02
<b>Form:</b>	Powder
<b>Appearance:</b>	White powder
<b>Melting Point:</b>	871.7°C
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>FK506, also known as Tacrolimus, is a macrolide immunosuppressive drug commonly used post-transplant to reduce graft rejection. Tacrolimus is insoluble in aqueous solution.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p>
<b>Mechanism of Action:</b>	Tacrolimus forms complexes with other immune proteins which inhibit IL-2 cytokine production which ultimately suppresses T-cell proliferation and cytotoxicity.
<b>References:</b>	<p>Thomson, A. W., and C. A. Bonham. "Mode of Action of Tacrolimus (FK506): Molecular and Cellular Mechanisms." <i>Therapeutic Drug Monitoring</i> 17.6 (1995): 584-91. <a href="http://www.ncbi.gov">www.ncbi.gov</a>. Pittsburgh Transplantation Institute, Dec. 1995. Web. 31 Aug. 2012.</p>

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