

Product Name:	Pimecrolimus
Product Number:	P083
CAS Number:	137071-32-0
Molecular Formula:	$C_{43}H_{68}ClNO_{11}$
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Pimecrolimus is a semi-synthetic, macrocyclic lactone derived from ascomycin by activation of the 32-hydroxy group with a triflate ester, and nucleophilic substitution with chloride under phase transfer conditions to provide the chloro analogue. Pimecrolimus has been targeted for treatment of inflammatory skin disorders. Pimecrolimus is extensively cited in the literature with over 2,000 citations.</p> <p>Pimecrolimus is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</p>
Mechanism of Action:	<p>As a tacrolimus analogue pimecrolimus binds to receptor protein FKBP12. The complex then binds to mTOR preventing it from interacting with target proteins.</p>
References:	<p>Method for preparing pimecrolimus. Gyollai V. & Szabo C. US Patent 7,279,571, 2007.</p> <p>Pimecrolimus. Novartis. Schopf R.E. Curr. Opin. Investig. Drugs 2002, 3, 720.</p>