



Umirolimus PRODUCT DATA SHEET

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Product Name:	Umirolimus
Product Number:	U008
CAS Number:	851536-75-9
Molecular Formula:	$C_{55}H_{87}NO_{14}$
Molecular Weight:	986.3
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Umirolimus is a semi-synthetic macrocyclic lactone prepared from rapamycin by selective alkylation of the 42-hydroxy group, providing one of most hydrophobic tacrolimus analogues. Umirolimus has been targeted for use in stents and medical devices to suppress localised immunoreaction. Umirolimus is extensively cited in the literature with over 70 citations.</p> <p>Umirolimus is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	<p>Umirolimus binds to receptor protein, FKBP12. The complex then binds to mTOR and prevents it from interacting with target proteins.</p>
References:	<p>A process of the preparation of O-alkylated rapamycin derivative. Isozaki M. & Kawanishi T. US Patent 7,193,078, 2007.</p> <p>To Market, To Market - 2008. Hegde S. & Schmidt M. Annual Reports in Medicinal Chemistry Chapter 28 (Ed. John E. Macor) 2009, 44, 577.</p>

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