



# Zotarolimus PRODUCT DATA SHEET

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<b>Product Name:</b>	Zotarolimus
<b>Product Number:</b>	Z013
<b>CAS Number:</b>	221877-54-9
<b>Molecular Formula:</b>	$C_{52}H_{79}N_5O_{12}$
<b>Molecular Weight:</b>	966.2
<b>Appearance:</b>	White solid
<b>Description:</b>	<p>Zotarolimus is a semi-synthetic macrocyclic lactone prepared from rapamycin by preparation of the 42-triflate ester, followed by displacement with tetrazole and purification of the two isomeric products. This structural change affords a less bioavailable product, a preferred profile for some applications. Zotarolimus is extensively cited in the literature with over 200 citations.</p>
<b>Mechanism of Action:</b>	<p>Zotarolimus binds to a receptor protein (FKBP12). The complex then binds to mTOR preventing it from interacting with target proteins.</p>
<b>References:</b>	<p>Compositions, systems, and kits for administering zotarolimus and paclitaxel to blood vessel lumens. Burke S.E. et al. US Patent 7,357,942, 2008.</p> <p>Zotarolimus, a novel sirolimus analogue with potent anti-proliferative activity on coronary smooth muscle cells and reduced potential for systemic immunosuppression Chen Y.W. et al. J. Cardiovasc. Pharmacol. 2007, 49, 228.</p>

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