

Product Name:	Zotarolimus
Product Number:	Z013
CAS Number:	221877-54-9
Molecular Formula:	$C_{52}H_{79}N_5O_{12}$
Molecular Weight:	966.2
Appearance:	White solid
Description:	<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>
Mechanism of Action:	<p>Zotarolimus binds to a receptor protein (FKBP12). The complex then binds to mTOR preventing it from interacting with target proteins.</p>
References:	<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>