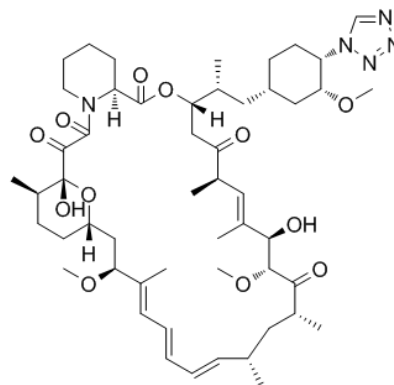


Product Name : Zotarolimus
Cat. No. : PC-43029
CAS No. : 221877-54-9
Molecular Formula : C₅₂H₇₉N₅O₁₂
Molecular Weight : 966.21
Target : mTOR
Solubility : DMSO: ≥ 33 mg/mL



Biological Activity

Zotarolimus (ABT-578, A 179578) is a semi-synthetic analogue of rapamycin, inhibits **FKBP-12** binding with IC₅₀ of 2.8 nM and shows less potent systemic immunosuppression than rapamycin.

Zotarolimus (ABT-578, A 179578) effectively inhibits both smooth muscle cell and endothelial cell proliferation, with IC₅₀ values of 2.9 nM and 2.6 nM, respectively.

Zotarolimus (ABT-578, A 179578) exhibits high-affinity binding to the immunophilin FKBP12, inhibiting in vitro proliferation of both human and rat T cells.

Zotarolimus (ABT-578, A 179578) inhibits Con A-induced human T cells with IC₅₀ of 7.0 nM.

Zotarolimus (ABT-578, A 179578) reduces early complications and improve late clinical outcomes in patients needing interventional cardiology.

References

Garcia-Touchard A, et al. *Eur Heart J*. 2006 Apr;27(8):988-93.

Chen YW, et al. *J Cardiovasc Pharmacol*. 2007 Apr;49(4):228-35.

Abizaid A, et al. *Am J Cardiol*. 2007 May 15;99(10):1403-8.

Wagner R, et al. *Bioorg Med Chem Lett*. 2005 Dec 1;15(23):5340-3.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com