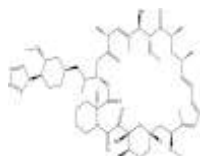


**PRODUCT: Zotarolimus****ALTERNATE NAME:** (42S)-42-Deoxy-42-(1H-tetrazol-1-yl)rapamycin; ABT-578**CATALOG #:** 9530-1, 5**AMOUNT:** 1 mg, 5 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>52</sub>H<sub>79</sub>N<sub>5</sub>O<sub>12</sub>**MOLECULAR WEIGHT:** 966.21**CAS NUMBER:** 221877-54-9**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** Zotarolimus is a semi-synthetic derivative of Sirolimus (Cat. No. 1568) that acts as an immunosuppressant. Zotarolimus displays mechanism similar to sirolimus in having high-affinity binding to the immunophilin FKBP12 and comparable potency for inhibiting in vitro proliferation of both human and rat T cells. In vitro, zotarolimus inhibited FKBP-12 binding (IC<sub>50</sub> = 2.8 nM) and potently blocked smooth muscle cell (IC<sub>50</sub> = 2.9 nM) and endothelial cell (IC<sub>50</sub> = 2.6 nM) proliferation.

**REFERENCES:** Chen, Y.W., *et al.* (2007). *J. Cardiovasc. Pharmacol.* **49**, 228-235.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

AZD-2014 (Cat. No. 9449-5,25)

BEZ235 (NVP-BEZ235) (Cat. No. 1626-5, 25)

BI-D1870 (Cat. No. 1824-1, 5)

Deforolimus (Cat. No. 1587-5, 25)

DiscoveryPak™ PI 3-Kinase Inhibitor Panel (Cat. No. K856-5)

Everolimus (Cat. No. 1917-5, 25)

GDC-0941 (Cat. No. 1623-1,5)

GSK-2126458 (Cat. No. 1961-1, 5)

IC87114 (Cat. No. 1661-1)

LY 294002 (Cat. No. 1667-5, 25)

mTOR Inhibitor, Ku-0063794 (Cat. No. 1779-1,5)

mTOR Inhibitor, WYE-28 (Cat. No. 2255-500, 1000)

mTOR Inhibitor, WYE-132 (Cat. No. 2256-500, 1000)

mTOR Inhibitor, WYE-23 (Cat. No. 2257-500, 1000)

PI-103 (Cat. No. 1728-1,5)

PI3-Kγ Inhibitor, AS-605240 (Cat. No. 1780-1,5)

PathwayReady™ PI3-K/Akt/mTOR Signaling Inhibitor panel (Cat. No. K857-11)

PP242 (Cat. No. 1658-1)

PX-866 (Cat. No. 1965-1,5)

Rapamycin (Cat. No. 1568-5, 50)

EZSolution™ Rapamycin (Cat. No. 1746-5)

Temsirolimus (Cat. No. 1600-5, 25)

TGX-115 (Cat. No. 1660-1)

TGX-221 (Cat. No. 1781-1,5)

Torin 1 (Cat. No. 2273-5, 25)

Torin 2 (Cat. No. 2274-5, 25)

EZSolution™ Torin 1 (Cat. No. 2353-5)

EZSolution™ Torin 2 (Cat. No. 2354-5)

Wortmannin (Cat. No. 1670)

**USAGE:** FOR RESEARCH CH USE ONLY! Not to be used in humans