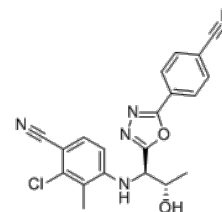


Product Name : RAD140
Cat. No. : PC-49722
CAS No. : 1182367-47-0
Molecular Formula : C₂₀H₁₆ClN₅O₂
Molecular Weight : 393.83
Target : Androgen Receptor (AR)
Solubility : 10 mM in DMSO



Biological Activity

RAD140 (RAD-140, Vosilasarm) is a potent, orally bioavailable, nonsteroidal selective **androgen receptor** modulator (SARM), shows excellent affinity for the androgen receptor (K_i=7 nM).

RAD140 displays good selectivity over other steroid hormone nuclear receptors, with the closest off target receptor being the progesterone receptor.

RAD140 exhibits in vitro functional androgen agonist activity with EC₅₀ of 0.1 nM in the C2C12 osteoblast differentiation assays.

RAD140 stimulates muscle weight increases at a lower dose than that required to stimulate prostate weight increases in vivo.

Oral administration of RAD140 substantially inhibited the growth of AR/ER+ breast cancer patient-derived xenografts (PDX).

Coadministration of RAD140 and palbociclib showed improved efficacy in the AR/ER+ PDX models.

References

Miller CP, et al. *ACS Med Chem Lett.* 2010 Dec 2;2(2):124-9.

Yu Z, et al. *Clin Cancer Res.* 2017 Dec 15;23(24):7608-7620.

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

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