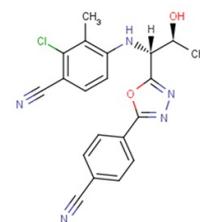


**Product Name** : Testolone  
**Catalog Number** : T4358  
**CAS Number** : 1182367-47-0  
**Molecular Formula** : C<sub>20</sub>H<sub>16</sub>ClN<sub>5</sub>O<sub>2</sub>  
**Molecular Weight** : 393.82



**Description:** RAD140 is an investigational selective androgen receptor modulator (SARM) for the treatment of conditions such as muscle wasting and breast cancer.

**Storage:** 2 years -80°C in solvent; 3 years -20°C powder;

<b>Solubility</b>	DMSO	10 mM
	(< 1 mg/ml refers to the product slightly soluble or insoluble )	

<b>Receptor (IC50)</b>	Androgen Receptor
------------------------	-------------------

### In vitro Activity

in vitro: RAD140 demonstrates excellent affinity for the androgen receptor ( $K_i = 7$  nM) as well as good selectivity over other steroid hormone nuclear receptors, with the closest off target receptor being the progesterone receptor ( $IC_{50} = 750$  nM). RAD140 is a novel SARM with high affinity and specificity for AR, is orally available, and exhibits potent anabolic effects in rodents and nonhuman primates.

### In vivo Activity

in vivo: The stability of RAD140 is high ( $t_{1/2} > 2$  h) in incubations with rat, monkey, and human microsomes, and it also had good bioavailability in rats and monkeys. RAD140 is also neuroprotective using the rat kainate lesion model. RAD140 is shown to exhibit peripheral tissue-specific androgen action that largely spared prostate, neural efficacy by activation of androgenic gene regulation effects, and neuroprotection of hippocampal neurons against cell death caused by systemic administration of the excitotoxin kainate.

### Reference

1. Miller CP, et al. Design, Synthesis, and PreClinicalal Characterization of the Selective Androgen Receptor Modulator (SARM) RAD140. ACS Med Chem Lett. 2010 Dec 2;2(2):124-129.
2. Jayaraman A, et al. Selective androgen receptor modulator RAD140 is neuroprotective in cultured neurons and kainate-lesioned male rats. Endocrinology. 2014 Apr;155(4):1398-1406.

### FOR RESEARCH PURPOSES ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Information for product storage and handling is indicated on the product datasheet. Targetmol products are stable for long term under the recommended storage conditions. Our products may be shipped under different conditions as many of them are stable in the short-term at higher or even room temperatures. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, please follow the storage recommendations on the product data sheet.