

# RAD-140 (Testolone) Overview

## Why We Need It

RAD-140, commonly known as Testolone, is a potent selective androgen receptor modulator (SARM) developed for muscle wasting, osteoporosis, and neurodegenerative disease research. Known for its high anabolic potency, RAD-140 is one of the most powerful SARMs available, delivering muscle-building effects comparable to testosterone with significantly reduced androgenic side effects. RAD-140 remains investigational and is not FDA-approved for medical use.

## Mechanism of Action

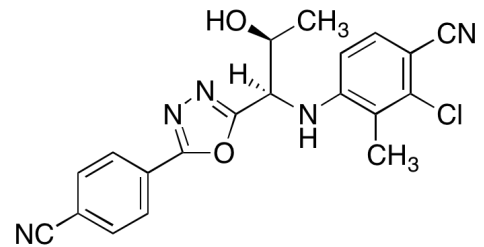
RAD-140 selectively binds to androgen receptors (AR) in muscle and bone tissue, triggering anabolic activity while sparing androgen-sensitive tissues such as the prostate and hair follicles.

## Key mechanisms include:

- Upregulation of muscle protein synthesis via AR activation and mTOR signaling
- Neuroprotective activity, potentially protecting neurons from degeneration
- Minimal stimulation of reproductive tissues, reducing risks of gynecomastia and prostate issues
- This highly tissue-selective profile makes it a strong candidate for muscle mass enhancement and neurodegenerative research.

## Functions and Benefits

- Significant increases in lean muscle mass and strength
- Improved recovery and training performance
- Enhanced bone density and skeletal support
- Minimal water retention and clean, dry gains
- Potential neuroprotective effects based on early studies
- Reduced androgenic risks such as hair loss or prostate growth



## Medical-Grade Dosing

Dose: 10–30 mg per day

Frequency: Once daily (half-life ~16–20 hours)

Cycle Duration: 6–8 weeks

Post-Cycle Therapy (PCT): Strongly recommended; Clomid or Nolvadex advised for HPTA recovery

Liver Support: NAC (600–1,200 mg/day) or TUDCA (250 mg/day) suggested due to hepatotoxicity potential

## Pharmacology and Bioavailability

- Orally bioavailable with long half-life allowing for once-daily dosing
- Highly anabolic, potentially stronger than testosterone on a mg-per-mg basis
- Low liver toxicity in short-term use, but hepatotoxicity possible with high doses or long cycles
- Research-use only, not approved for therapeutic use

## Administration Guidelines

- Take once daily, ideally with food
- Monitor liver enzymes and hormone panels pre-, mid-, and post-cycle
- Implement comprehensive PCT to restore natural testosterone levels
- Use responsibly due to potency and suppression potential

## Conclusion

RAD-140 (Testolone) is one of the most powerful SARMs available for research, offering exceptional muscle-building effects and neuroprotective potential with minimal androgenic side effects. Its high potency and suppression risk demand strict hormonal monitoring, proper liver support, and professional oversight in all experimental applications.