

PRESCRIPTION MONOGRAPH

Compounded Active Ingredients: Testosterone

Form: Oral Capsule

Drug Class: Androgen; Anabolic Steroid

Mechanism of Action^{1,2}:

Compounded testosterone is a bioidentical androgen intended to mimic your body's natural testosterone by binding to androgen receptors in various tissues, such as the muscles, bones, and reproductive tissues. Once bound, the receptor-hormone complex may attach to DNA and regulate gene expression, triggering the production of proteins that promoting the development and maintenance of male secondary sexual characteristics, anabolic activity, and overall hormonal balance.

Indications Commonly Prescribed For:

- Primary and secondary hypogonadism in adult males.
 - Delayed puberty in adolescent males (under specialist supervision).
 - Hormone therapy in transgender men.
 - Hypoactive sexual desire disorder in postmenopausal women.
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Before Use: Let your health care provider know if you have any medication allergies before you take this compounded preparation. Let your health care provider know if you have any liver or kidney problems. Let your healthcare provider know of all supplements you are currently taking.

Contraindications:

- Known hypersensitivity to testosterone.
 - Men with carcinoma of the breast, known or suspected prostate cancer.
 - Pregnant or breastfeeding women.
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Cautions: Let your Healthcare provider know if you experience any adverse side effects.

How to Use: This compounded preparation is in the form of an oral capsule. Swallow the capsule whole with a glass of water. Do not chew or crush the capsule. If you miss a dose, take as soon as you remember, but not at the time for the next dose. The desired results may take up to several weeks.

Warnings and Precautions:

- Cardiovascular Risks: Potential increased risk of heart attack and stroke; monitor patients with cardiovascular disease.
 - Prostate Monitoring: Regular screening for prostate abnormalities is recommended.
 - Hepatic Effects: Monitor liver function periodically.
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Adverse Reactions:

Common:

- Skin irritation
- Acne
- Mood swings
- Increased red blood cell count

Serious, But Rare:

- Cardiovascular events
 - Liver toxicity
 - Prostate abnormalities
 - Gynecomastia
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Interactions:

- Anticoagulants: Testosterone may enhance the effects of oral anticoagulants.
 - Corticosteroids: Concurrent use may increase fluid retention.
 - Insulin: Testosterone may decrease blood glucose levels, necessitating adjustment of insulin dosage.
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Use in Specific Populations:

- Pediatric: Safety and efficacy have not been established; use with caution.
 - Geriatric: May increase the risk of prostate enlargement and cardiovascular events.
 - Females: Use in women should be approached with caution due to potential virilizing effects.
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Storage:

- Store in original container at room temperature (up to 30°C or 86°F).
 - Store in a cool dry place away from heat, sunlight, and moisture.
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Monitoring Parameters:

- Serum testosterone levels to ensure therapeutic range.
 - Prostate-specific antigen (PSA) levels and digital rectal exams for prostate monitoring.
 - Liver function tests.
 - Hematocrit and hemoglobin levels to detect polycythemia.
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Citations:

1. Nassar GN, Leslie SW. Physiology, Testosterone. [Updated 2022 Jan 4]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK526128/> 2.
 2. Tyagi V, Scordo M, Yoon RS, Liporace FA, Greene LW. Revisiting the role of testosterone: Are we missing something? Rev Urol. 2017;19(1):16-24. doi: 10.3909/riu0716. PMID: 28522926; PMCID: PMC5434832.
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