

NANDROLONE LAURATE

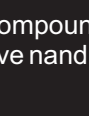
PRODUCT OVERVIEW

Specification	Details
Generic Name	Nandrolone Laurate
Drug Class	Anabolic Androgenic Steroid (AAS)
Active Ingredient	Nandrolone Laurate
Chemical Formula	C ₃₀ H ₄₈ O ₃
Molecular Weight	456.70 g/mol
Administration Route	Intramuscular Injection
Ester Type	Long-Acting Nandrolone Ester
Approximate Half-Life	Approximately 8–14 Days (Estimated Based on Ester Characteristics)
Release Profile	Slow and Sustained Release
Bioavailability	High After Intramuscular Administration
Primary Medical Use	Treatment of selected anemia disorders, osteoporosis, and conditions associated with protein catabolism under medical supervision



INTRODUCTION

Nandrolone Laurate is a long-acting esterified form of nandrolone developed to provide sustained hormone availability following intramuscular administration. Nandrolone is a synthetic anabolic androgenic steroid structurally related to testosterone but characterized by the absence of a carbon atom at the 19th position, resulting in the designation 19-nortestosterone. The laurate ester increases the lipophilicity of nandrolone, slowing absorption from the intramuscular depot and allowing gradual release of active hormone into systemic circulation over an extended period. Compared with shorter nandrolone esters, Nandrolone Laurate is expected to provide a prolonged pharmacokinetic profile with sustained hormone exposure. Although clinical data are more limited than those available for Nandrolone Decanoate, the compound has contributed to the understanding of long-acting anabolic steroid formulations.



HISTORY

Nandrolone Laurate was developed as part of the ongoing effort to create long-acting esterified derivatives of nandrolone for sustained hormone delivery.

By esterifying nandrolone with lauric acid, researchers produced a formulation with slower absorption characteristics and extended biological activity following intramuscular administration.

Historically, Nandrolone Laurate has been used primarily in veterinary medicine and has received comparatively limited investigation in human clinical practice.

Research involving Nandrolone Laurate has contributed to the understanding of:

- * Long-acting steroid esters
- * Depot injection pharmacology
- * Androgen pharmacokinetics
- * Sustained-release hormone formulations



CHEMICAL STRUCTURE

Nandrolone Laurate consists of the nandrolone molecule esterified with lauric acid at the 17-beta hydroxyl position.

The laurate ester increases lipid solubility, allowing the compound to remain within the intramuscular depot for an extended period before gradual enzymatic hydrolysis releases active nandrolone.

The undecanoate ester primarily influences:

- * Absorption rate
- * Release duration
- * Plasma availability
- * Pharmacokinetic characteristics

Following enzymatic cleavage of the ester bond, free nandrolone becomes biologically active and interacts with androgen receptors in multiple tissues.



CHEMICAL PROFILE

Parameter	Information
Chemical Name	Nandrolone Laurate
Hormone Classification	Anabolic Androgenic Steroid
Ester Group	Laurate
Active Hormone	Nandrolone
Administration Route	Intramuscular Injection
Molecular Formula	C ₃₀ H ₄₈ O ₃
Molecular Weight	456.70 g/mol



PHARMACOLOGY

Following intramuscular administration, Nandrolone Laurate forms a long-lasting depot within muscle tissue.

The laurate ester undergoes gradual enzymatic hydrolysis, releasing free nandrolone into systemic circulation over an extended period.

Its prolonged release profile is expected to provide slower hormone availability than Nandrolone Phenylpropionate while remaining broadly comparable to other long-acting nandrolone esters.

Once released, nandrolone interacts with androgen receptors located throughout multiple tissues including:

- * Skeletal muscle
- * Bone
- * Bone marrow
- * Connective tissue
- * Skin
- * Liver
- * Reproductive tissues

Nandrolone also undergoes metabolic conversion into biologically active metabolites.

Conversion Pathway	Enzyme	Product
Nandrolone → DHN	5-alpha reductase	Dihydronandrolone
Nandrolone → Estradiol	Aromatase	Estradiol (Low Rate)



MECHANISM OF ACTION

Nandrolone produces its biological effects primarily through activation of intracellular androgen receptors.

The biological process includes:

- * Nandrolone enters target cells.
- * Nandrolone binds to androgen receptors.
- * The receptor-hormone complex becomes activated.
- * The activated complex translocates into the cell nucleus.
- * Interaction with androgen response elements occurs on DNA.
- * Gene transcription is regulated.
- * Cellular protein synthesis and tissue-specific physiological responses are influenced.

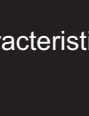
Activation of androgen receptors contributes to:

- * Protein synthesis
- * Nitrogen retention
- * Muscle tissue maintenance
- * Bone remodeling
- * Red blood cell production
- * Connective tissue physiology
- * Endocrine regulation



PHARMACODYNAMICS

Nandrolone Laurate affects multiple physiological systems through androgen receptor signaling.

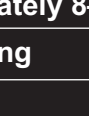


SKELETAL MUSCLE SYSTEM

Nandrolone contributes to normal muscle physiology through:

- * Regulation of protein synthesis
- * Support of muscle tissue maintenance
- * Influence on nitrogen retention
- * Regulation of muscle cell function

Androgen receptor activation plays an important role in maintaining skeletal muscle structure and physiological function.



SKELETAL SYSTEM

Nandrolone contributes to skeletal health by influencing:

- * Bone mineral density
- * Bone remodeling processes
- * Osteoblast activity
- * Skeletal maintenance

Nandrolone has been extensively investigated for its effects on bone metabolism and connective tissue physiology.



HEMATOLOGICAL SYSTEM

Nandrolone influences erythropoiesis, the physiological process responsible for red blood cell production.

Physiological effects include:

- * Regulation of erythropoietin activity
- * Support of red blood cell formation
- * Influence on oxygen transport capacity



CONNECTIVE TISSUE

Nandrolone contributes to connective tissue physiology by influencing:

- * Collagen synthesis
- * Connective tissue maintenance
- * Structural protein metabolism
- * Tissue remodeling



REPRODUCTIVE SYSTEM

Nandrolone interacts with androgen-sensitive tissues and contributes to:

- * Hormonal regulation
- * Maintenance of androgen-responsive tissues
- * Endocrine signaling
- * Reproductive physiology



PHARMACOKINETICS

Following intramuscular administration, Nandrolone Laurate forms a persistent intramuscular depot that gradually releases active nandrolone into systemic circulation.

The laurate ester provides prolonged absorption characteristics through increased lipophilicity, resulting in sustained hormone exposure over an extended period.

Although published pharmacokinetic data remain limited, the expected release profile is consistent with the behavior of other long-chain nandrolone esters and established steroid ester pharmacology.



PHARMACOKINETIC PROFILE

Parameter	Description
Ester Type	Long-Acting Nandrolone Ester
Absorption	Slow release from intramuscular depot
Release Pattern	Sustained and prolonged release
Half-Life	Approximately 8–14 Days (Estimated)
Duration of Activity	Long-Acting
Plasma Stability	High
Protein Binding	High
Metabolism	Primarily hepatic
Active Hormone	Nandrolone
Elimination	Urinary excretion of metabolites



PHYSIOLOGICAL EFFECTS

Normal nandrolone activity contributes to:

Muscle Function

- * Protein synthesis
- * Nitrogen retention
- * Maintenance of lean body tissue
- * Muscle physiology

Bone Health

- * Bone remodeling
- * Mineral density maintenance
- * Skeletal integrity

Connective Tissue

- * Collagen synthesis
- * Connective tissue maintenance
- * Structural support

Hematological Function

- * Red blood cell production
- * Oxygen transport support
- * Normal erythropoiesis

General Physiology

- * Protein metabolism
- * Hormonal regulation
- * Endocrine function



CLINICAL APPLICATIONS

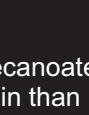
Nandrolone Laurate has primarily been investigated as a long-acting nandrolone ester intended to provide sustained hormone availability.

Clinical evaluation may include:

- * Medical history
- * Physical examination
- * Laboratory assessment
- * Individual therapeutic evaluation

Potential medical applications include:

- * Selected anemia disorders
- * Osteoporosis
- * Conditions associated with protein catabolism
- * Selected chronic disease management

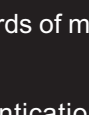


SAFETY CONSIDERATIONS

Nandrolone therapy requires individualized medical evaluation and regular monitoring.

Important considerations include:

- * Cardiovascular health
- * Blood parameters
- * Endocrine function
- * Liver and kidney function
- * Lipid profile
- * Individual therapeutic response



POTENTIAL ADVERSE EFFECTS

Possible adverse effects may include:

Endocrine Effects

- * Suppression of endogenous testosterone production
- * Hormonal imbalance
- * Alterations in endocrine function

Dermatological Effects

- * Acne
- * Increased skin oil production
- * Hair loss in genetically predisposed individuals

Cardiovascular Effects

- * Changes in lipid profile
- * Increased hematocrit
- * Fluid retention

Reproductive Effects

- * Reduced fertility
- * Suppression of spermatogenesis
- * Hormonal suppression

CONTRAINDICATIONS

Condition	Reason
Prostate Cancer	Potential androgen sensitivity
Male Breast Cancer	Hormone-sensitive condition
Pregnancy	Risk of fetal virilization
Severe Untreated Medical Conditions	Requires medical evaluation
Known Hypersensitivity	Risk of allergic reaction

DRUG INTERACTIONS

Potential interactions may occur with:

Anticoagulants

Nandrolone may influence anticoagulant response and require monitoring.

Antidiabetic Medications

Changes in glucose metabolism may alter therapeutic requirements.

Corticosteroids

Combined administration may increase fluid retention.

Other Hormonal Therapies

Combined hormonal therapy requires professional medical supervision.

Laboratory Test	Purpose
CBC	Assess blood parameters
Hematocrit	Monitor red blood cell concentration
Hemoglobin	Evaluate erythropoiesis
Liver Function Tests	Assess hepatic health
Kidney Function Tests	Evaluate renal function
Lipid Profile	Monitor cardiovascular risk markers
Total Testosterone	Evaluate endocrine status
Estradiol (E2)	Assess estrogen balance
PSA (When Appropriate)	Monitor prostate health

STORAGE & STABILITY

- * Store according to official product labeling.
- * Protect from excessive heat and direct sunlight.
- * Do not freeze.
- * Maintain original packaging integrity.
- * Keep away from children.
- * Inspect packaging before use.

PRODUCT AUTHENTICITY

Every genuine NEXON product should include appropriate quality verification features.

Authentication may include:

- * Batch number tracking
- * Manufacturing information
- * Expiration date verification
- * QR authentication system
- * Authorized distribution verification

NEXON emphasizes transparency, traceability, and product quality control.

FREQUENTLY ASKED QUESTIONS

What is Nandrolone Laurate?

Nandrolone Laurate is a long-acting esterified form of nandrolone designed to provide prolonged hormone availability following intramuscular administration.

How is Nandrolone Laurate different from Nandrolone Decanoate?

Nandrolone Laurate contains a slightly longer ester chain than Nandrolone Decanoate and is expected to provide slower absorption and prolonged hormone release. Published pharmacokinetic data remain limited.

What is the active hormone released after ester hydrolysis?

After enzymatic cleavage, the active hormone released is nandrolone (19-nortestosterone).

Why are nandrolone esters used?

Esterification modifies the pharmacokinetic profile of nandrolone by controlling hormone release and extending biological activity.

Is Nandrolone Laurate identical to testosterone?

No. Nandrolone is a structurally modified androgen derived from testosterone by removal of the carbon atom at the 19th position, resulting in distinct pharmacological properties.

NEXON QUALITY COMMITMENT

NEXON is committed to maintaining the highest standards of manufacturing quality, product consistency, traceability, and scientific integrity.

Through advanced quality control systems, authentication technologies, and evidence-based pharmaceutical development, NEXON strives to provide reliable products supported by scientific transparency and regulatory standards.

SCIENTIFIC REFERENCES

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