

PRESCRIPTION MONOGRAPH

Compounded Active Ingredients: Minoxidil/Finasteride/Latanoprost

Form: Topical Foam

Drug Class:

- Minoxidil: Antihypertensive vasodilator
 - Finasteride: Type II 5- α -reductase inhibitor (antiandrogen)
 - Latanoprost: Prostaglandin F2 α analog
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Mechanism of Action^{1,2,3}:

When compounded together, Minoxidil, Finasteride, and Latanoprost have the potential to provide a multi-targeted approach that enhances overall hair growth and preservation: Minoxidil stimulates hair growth, Finasteride shields them from hormone-related thinning, and Latanoprost helps hair grow longer and thicker. Together they are intended to work by:

- Stimulate vascular and follicular activity by opening potassium channels in dermal papilla cells, to enhance blood flow and nutrient delivery to follicles, promoting local growth factors.
 - Lower levels of DHT (a hormone linked to hair loss) in the scalp, to help protect hair follicles from shrinking and to slow down shedding.
 - Prolong hair growth cycle, increasing follicular proliferation, pigmentation, and shaft thickness.
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Indications Commonly Prescribed For:

- Androgenetic alopecia
 - Post-inflammatory shedding
 - Cosmetic hair quality: To improve density, thickness, and retention.
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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:

- Scalp irritation or dermatitis where barrier is compromised
 - Systemic absorption of high minoxidil concentrations may cause hypotension
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Cautions: Let your Healthcare provider know if you experience any adverse side effects.

How to Use: This compounded preparation is provided as a topical foam for application to the scalp. Apply the directed amount of foam to the affected areas, usually once or twice daily as instructed by your provider. Part the hair to ensure the foam makes direct contact with the scalp and gently massage if recommended. Wash your hands thoroughly after application. Avoid contact with the eyes, mouth, or broken skin. If you miss a dose, take as soon as you remember, but not at the time for the next dose. Desired results may take up to several weeks.

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Warnings and Precautions:

- Initial shedding: Minoxidil may cause early “shedding” as follicles transition.
 - Systemic absorption risk: monitor for hypotension and tachycardia.
 - Concurrent use with retinoids or acids may increase scalp sensitivity—stagger products.
 - Scalp conditions: Use with caution with psoriasis, eczema, or other compromised barrier.
 - Finasteride may lower serum DHT; counsel men of reproductive age.
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Adverse Reactions:

Common:

- Mild skin irritation
- Transient erythema
- Itching, Dryness
- Initial shedding

Rare:

- Nausea
 - Tachycardia, Hypotension
 - Dizziness
 - Decreased libido, erectile dysfunction
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Interactions:

- Concurrent strong vasodilators or antihypertensives may have additive hypotensive effect if absorption is higher than expected.
 - Avoid concurrent scalp irritants (retinoids, acids).
 - Additive antiandrogen effect with dutasteride; may alter PSA levels.
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Use in Specific Populations:

- Pregnancy: Avoid if pregnant or planning pregnancy due to teratogenic risk
 - Pediatrics: Avoid unless under dermatologic supervision
 - Geriatrics: Start with the lower minoxidil strength (2%) and monitor tolerability
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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:

- Skin/hair response over 8–12 weeks
 - Prostate screening (men >50): Adjust PSA interpretation if systemic absorption suspected
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Citations:

1. Li M, Marubayashi A, Nakaya Y, Fukui K, Arase S. Minoxidil-induced hair growth is mediated by adenosine in cultured dermal papilla cells: possible involvement of sulfonyleurea receptor 2B as a target of minoxidil. *J Invest Dermatol*. 2001;117(6):1594-1600. doi:10.1046/j.0022-202X.2001.01570.x
 2. Kaufman KD, Olsen EA, Whiting D, Savin R, DeVillez R, Bergfeld W, Price VH, Van Neste D, Roberts JL, Hordinsky M, Shapiro J, Binkowitz B, Gormley GJ; Finasteride Male Pattern Hair Loss Study Group. Finasteride in the treatment of men with androgenetic alopecia. *J Am Acad Dermatol*. 1998;39(4):578-589. Available from: Radcliffe Department of Medicine website. Accessed September 17, 2025.
 3. Jiang S, Hao Z, Qi W, Wang Z, Zhou M, Guo N. The efficacy of topical prostaglandin analogs for hair loss: A systematic review and meta-analysis. *Front Med (Lausanne)*. 2023;10:1130623. doi:10.3389/fmed.2023.1130623
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