

Minoxidil powder

Cat. No. EXTZ-902

Lot. No. (See product label)

Introduction

Description

Minoxidil is a piperidinopyrimidine derivative (2,4-diamino-6-piperidinopyrimidine 3-oxide) widely used as the active ingredient in topical hair growth formulations. As a potassium channel opener and peripheral vasodilator, it prolongs the anagen (growth) phase of the hair follicle cycle, improves follicular microcirculation, and stimulates the proliferation of dermal papilla cells. This high-purity minoxidil powder ($\geq 99\%$) is a white to off-white crystalline powder with well-defined physicochemical properties, suitable as a raw material for cosmetic and personal-care formulations such as topical solutions, foams, and serums for scalp care, as well as for laboratory research in hair follicle biology and dermal cell studies. The compound is slightly soluble in water and readily soluble in ethanol, methanol, and DMSO, enabling flexible formulation design across hydroalcoholic solvent systems.

Applications

Cosmetic, Research

Synonyms

6-Piperidin-1-ylpyrimidine-2,4-diamine 3-oxide

Product Information

Appearance

White to off-white crystalline powder

Form

White powder

CAS No.

38304-91-5

Molecular Formula

C₉H₁₅N₅O

Chemical Name

2,4-Diamino-6-piperidinopyrimidine 3-oxide

Purity

99%

Function

Hair growth promoting agent; Peripheral vasodilator

Solubility

Slightly soluble in water; soluble in ethanol, methanol, and DMSO

Storage and Shipping Information

Storage

Store in a tightly closed container in a cool, dry place, protected from light