

Certificate of Analysis

Print Date: Jul 24th 2018

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Product Name: Minoxidil Catalog No.: 0583 Batch No.: 3

CAS Number: 38304-91-5 EC Number: 253-874-2

IUPAC Name: 6-(1-Piperidinyl)-2,4-pyrimidinediamine 3-oxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_9H_{15}N_5O$ Batch Molecular Weight:209.25Physical Appearance:White solid

Solubility: ethanol to 25 mM

DMSO to 25 mM with gentle warming

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 51.66 7.23 33.47 Found 51.62 7.28 33.52



Product Information

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CAS Number: 38304-91-5 EC Number: 253-874-2

IUPAC Name: 6-(1-Piperidinyl)-2,4-pyrimidinediamine 3-oxide

Description:

Antihypertensive. Antialopecia agent. K_{ir}6 channel (K_{ATP})

activator.

Physical and Chemical Properties:

Batch Molecular Formula: C₉H₁₅N₅O Batch Molecular Weight: 209.25 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

ethanol to 25 mM

DMSO to 25 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions

should be made up and used on the same day.

References:

Lachgar et al (1998) Minoxidil upregulates the expression of vascular endothelial growth factor in human hair dermal papilla cells. Br.J.Dermatol. 138 407. PMID: 9580790.

Meisheri et al (1993) Enzymatic and non-enzymatic sulfation mechanisms in the biological actions of minoxidil. Biochem.Pharmacol. 45 271. PMID: 8435087.

Tsoporis et al (1993) Effects of the arterial vasodilator minoxidil on cardiovascular structure and sympathetic activity in spontaneously hypertensive rats. J.Hypertens. 11 1337. PMID: 8133016.

Merck Index 12 6290.