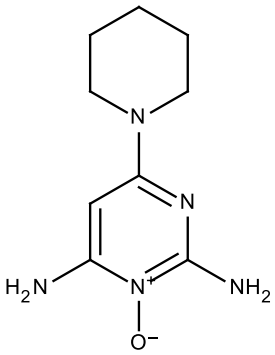
Catalog # 10-1214

Minoxidil

CAS# 38304-91-5

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

Lot # Z101224



Minoxidil is a direct antihypertensive peripheral vasodilator acting via activation of K_{ATP} channels leading to relaxation of smooth muscle.[1] Active metabolite is Minoxidil sulfate (IC_{50} = 0.14 µM). Mainly used as a treatment for alopecia because of its observed hair regrowth ability.[2]

1) Meisheri *et al*. (1988), *Mechanism of action of minoxidil sulfate-induced vsodialtion: a role for increased K+ permeability*. J.Pharmacol.Exp.Ther., **245** 7
2) Messenger and Rundegren (2004*) Minoxidil:mechanisms of action on hair growth*. Br.J.Dermatol. **150** 186

PHYSICAL DATA

Molecular Weight:	209.25
Molecular Formula:	$C_9H_{15}N_5O$
Purity:	>98% by TLC NMR: Conforms
Solubility:	DMSO (up to 5 mg/ml); Ethanol (up to 5 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO and ethanol may be stored at -20°C for up to 3 months.

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