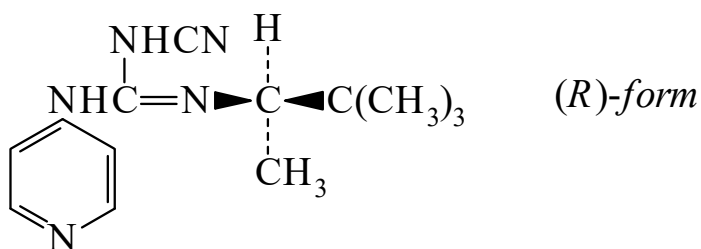




>>Entry Name: Pinacidil, INN, USAN

Synonym(s): *N*-Cyano-*N'*-4-pyridinyl-*N''*-(1,2,2-trimethylpropyl)guanidine, 9Cl. Pindac. Pindal. P 1134



CAS Registry Number: 60560-33-0

Related CAS Registry Numbers(s): 85371-64-8

Molecular Formula: C₁₃H₁₉N₅

Molecular Weight: 245.327

Accurate Mass: 245.164045

Percentage Composition: C 63.65%; H 7.81%; N 28.55%

Use/Importance: Potassium channel activator. Antihypertensive agent, vasodilator. Smooth muscle relaxant

Development Status: Launched 1987

Hazard & Toxicity: LD₅₀ (rat, orl) 210 mg/kg. LD₅₀ (rat, ivn) 155 mg/kg. Exp. fetotoxic and reprod. effects

>>Variant: (*R*)-form

CAS Registry Number: 113563-71-6

Molecular Formula: C₁₃H₁₉N₅

Molecular Weight: 245.327

Accurate Mass: 245.164045

Percentage Composition: C 63.65%; H 7.81%; N 28.55%

Physical Description: Cryst. (Me₂CO/Et₂O)

Melting Point: Mp 164-165°

Optical Rotation: [α]_D²⁰ -147.9 (c, 1.06 in EtOH)

Other Data: More pharmacol. active enantiomer

>>Variant: (*S*)-form

CAS Registry Number: 113563-70-5

Molecular Formula: C₁₃H₁₉N₅

Molecular Weight: 245.327

Accurate Mass: 245.164045

Percentage Composition: C 63.65%; H 7.81%; N 28.55%

Physical Description: Cryst. (Me₂CO/Et₂O)

Melting Point: Mp 135-136°

Optical Rotation: [α]_D²⁰ +144.9 (c, 1.01 in EtOH)

>>Variant: (±)-form

CAS Registry Number: 113563-69-2

Molecular Formula: C₁₃H₁₉N₅

Molecular Weight: 245.327

Accurate Mass: 245.164045

Percentage Composition: C 63.65%; H 7.81%; N 28.55%

Physical Description: Cryst. + 1H₂O (EtOH aq.)

Melting Point: Mp 110°. Mp 163-164 anhydr.°

pK_a Value: pK_{a2} 11.35

References: