

2-{bis[(1,5-dimethyl-1*H*-pyrazol-3-yl)methyl]amino}ethanol

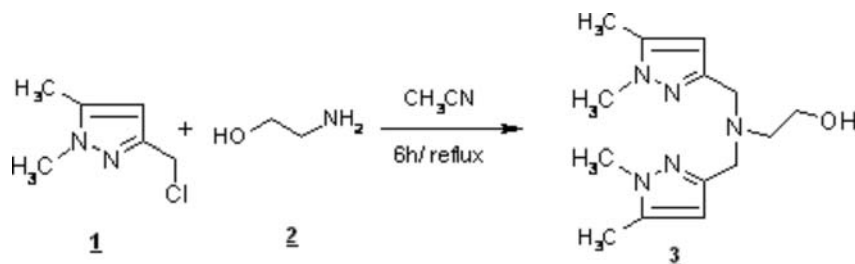
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To a mixture of 3-chloromethyl-1,5-dimethylpyrazole **1** [1] (6g, 41mmol) and sodium carbonate (17g, 160mmol) in 150 mL of acetonitrile was added slowly 2-aminoethanol **2** (1.25g, 20.5 mmol). The mixture was stirred under reflux for 6h [2, 3]. The solid material (Na₂CO₃, NaCl) was filtered and the filtrate was concentrated under reduced pressure. The residue was purified on alumina column with (CH₂Cl₂/EtOH: 97/3) as eluent to give the title compound **3** as yellowish solid (4.56g, 80%).

Melting Point = 64-66°C (CH₂Cl₂/EtOH).

R_f = 0.6 (alumina -CH₂Cl₂/EtOH : 97/3).

IR (KBr, cm⁻¹): 3380(OH), 2980(CH), 1680(C=C), 1560(C=N), 1460, 1400, 1300, 1160, 1140, 1070, 1040, 990, 800.

¹H NMR (200 MHz, CDCl₃) δ ppm: 5.95(s, 2H, HPz); 3.70(s, 6H, N-CH₃); 3.65(s, 4H, Pz-CH₂); 3.55(t, 2H, O-CH₂, J=5.12Hz); 2.66(t, 2H, N-CH₂, J=5.12Hz); 2.21(s, 6H, 2CH₃).

¹³C NMR (50MHz, CDCl₃) δ ppm: 11.65(Pz-CH₃); 36.26(N-CH₃); 51.70(CH₂-CH₂-N); 54.89(CH₂-OH); 59.34(Pz-CH₂-N); 105.55(Pz-C-H); 139.65(Pz-C=N); 148.72(Pz-C-N).

MS[EI]: m/z = 277; 246; 217; 168; 138; 109(100%); 95; 56; 42.

References

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Sample Availability: Available from the Authors.

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