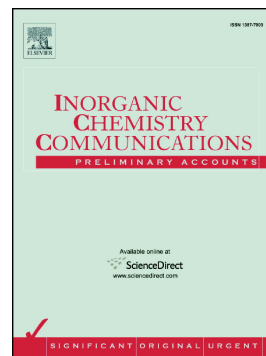


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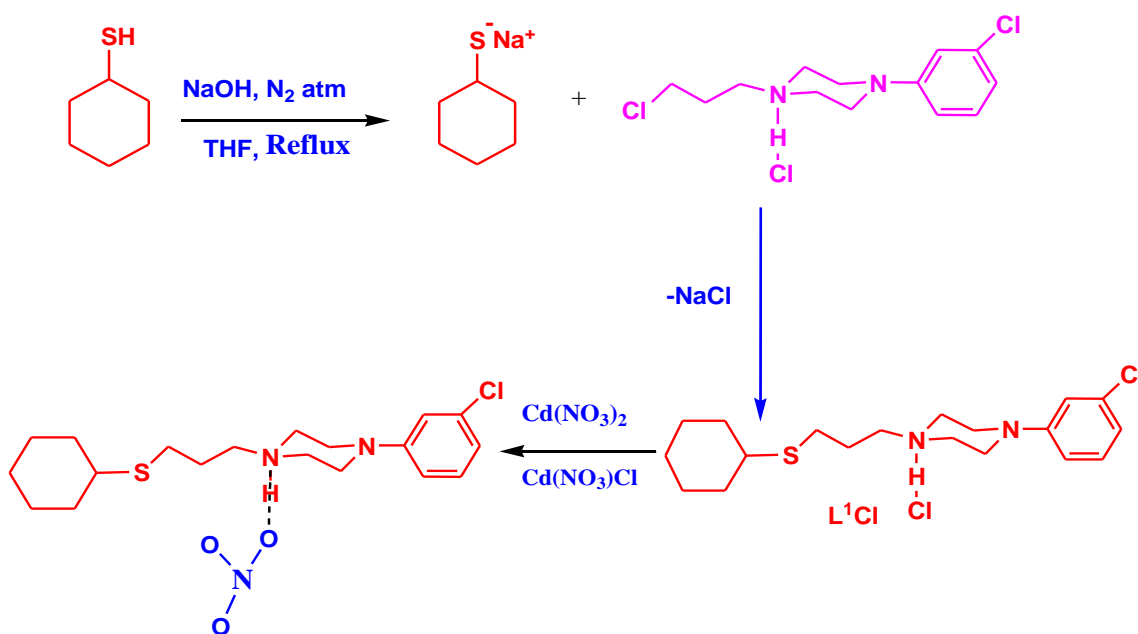
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Graphical Abstract



Abstract

$[C_6H_{11}S(CH_2)_3C_4H_9N_2C_6H_5Cl (L^1Cl)]$ has been synthesized by reaction of cyclohexyl thiol with 1-(chlorophenyl)-4-(3-chloropropyl) piperazine hydrochloride (P^1) under dry nitrogen atmosphere. The L^1Cl on reaction with $Cd(NO_3)_2$ forms a compound $[L^1NO_3]$ having NH...O hydrogen bonding. The single crystal structure of the compound L^1NO_3 is solved. The characteristic feature of these reactions is the retention of the piperazinium character from starting material (P^1) to ligand formation (L^1Cl) as well as in the formation of anion exchange

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