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Small molecule binding and activation on a cationic ruthenium center of a pincer complex

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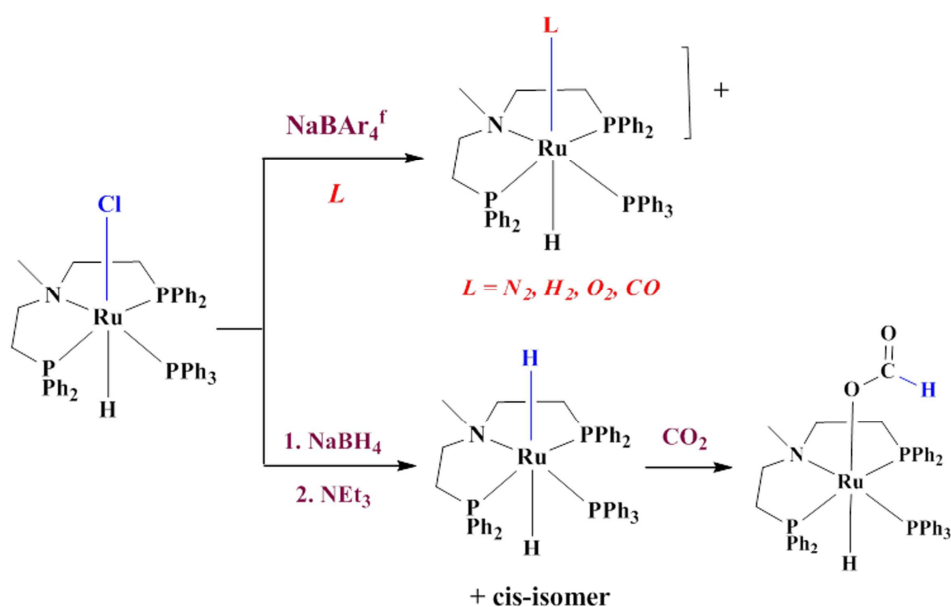
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Abstraction of chloride ligand in *trans*-[RuH(Cl)(PPh₃)(PNP)] complex using NaBAR₄^f in the presence of small molecules such as N₂, H₂, O₂, and CO resulted in the formation of *trans*-[RuH(L)(PPh₃)(PNP)]⁺ {L = N₂, H₂, O₂, CO} complexes. Reaction of *cis* / *trans*-[RuH₂(PPh₃)(PNP)] complexes with CO₂ lead to the formation of *trans*-[RuH(η¹-HCO₂)(PPh₃)(PNP)] complex.



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