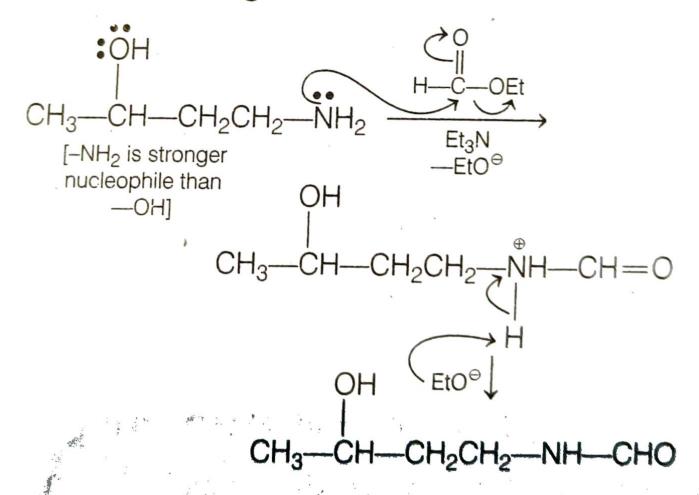
The major product of the following reaction is OH Ethyl formate (1 equiv.) CH₃ CHCH₂CH₂NH₂ -Triethylamine (2019 Main, 10 April I) OH (a) CH₃ CHCH₂CH₂NHCHO (b) $CH_3CH = CH - CH_2NH_2$ OH(c) $CH_3 - CH - CH = CH_2$ CH₂CHCH₂CH₂NH₂

1. The mechanism of the given reaction is as follows:



The basic mechanism of the reaction is acyl S_N^2 because the nucleophile, $CH_3(OH)CH_2CH_2$ NH_2 attacks the sp^2 carbon of the ester $(H-CO_2Et)$ and gets substituted.