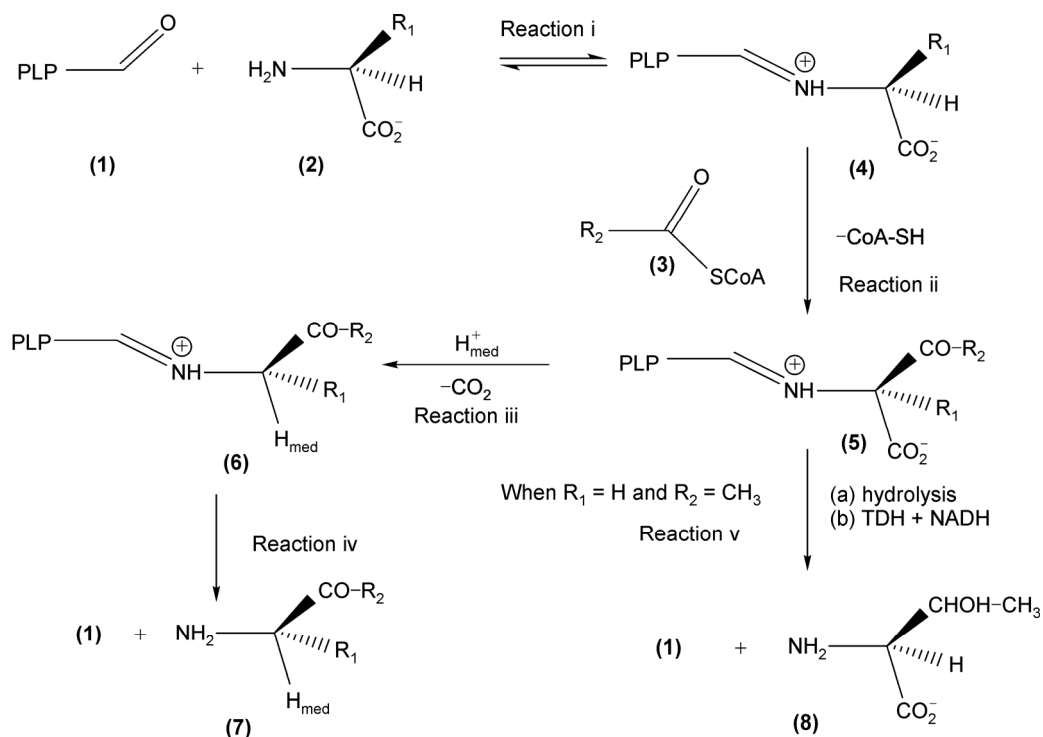


FIB-10378-FJ-Supplementary Material



Scheme S1. Reactions catalyzed by α -oxoamine synthases. (1), pyridoxal-5'-phosphate; (2), glycine ($R_1 = \text{H}$), *S*-alanine ($R_1 = \text{CH}_3$) or *S*-serine ($R_1 = \text{CH}_2\text{-OH}$); (3), acetyl CoA ($R_2 = \text{CH}_3$) or succinyl CoA ($R_2 = (\text{CH}_2)_2\text{CO}_2^-$). In the case of the reaction catalyzed by KB ligase the hydrolysis product of intermediate (5) may be trapped by threonine dehydrogenase (TDH) to give threonine