Catalytic Efficiency of Activation of Human Plasminogen by Various Activator Species

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Our studies on the kinetics of activation of human plasminogen by various activator species has permitted us to determine the catalytic efficiency of these activators. In these experiments, we calculated the dissociation constant (K_m) and the catalytic rate (k_{cat}), and the catalytic efficiency for each activator species (k_{cat}/K_m). The procedure made use of a coupled assay in which H-D-Val-L-Leu-L-Lys-p-nitroanilide (Kabi S-2251) hydrolysis was monitored at pH 7.4 and 37 °C.