

Table 1. Specific activity of GTK in human prostate cancer cells

Cell line/tissue	Phenylpyruvate formed (nmol/h/mg protein)
LNCaP	21.4 ± 2.1
LNCaP C4-2	31.9 ± 3.6
PC-3	23.3 ± 0.3
DU 145	30.9 ± 1.7
Rat kidney	641 ± 10

NOTE: The reaction mixture consisted of 20 mmol/L of L-phenylalanine, 5 mmol/L of KMB, 100 mmol/L of ammonium-HCl buffer (pH 9.0), and homogenates from prostate cancer cells. After incubation at 37°C for 30 min, the reaction was stopped by adding 0.15 mL of 1 mol/L NaOH, and absorbance of phenylpyruvate was measured at 320 nm wavelength ($\epsilon = 16,000 \text{ mol/L/cm}$). The blank reaction lacked KMB. Rat kidney cytosol served as a positive control for GTK activity. Each value is mean \pm SE of triplicate determinations.