Cortical neurons were exposed to DHPG (100 µM) for 10 min and proteins purified by PMAC were separated by 2-D electrophoresis and detected by silver staining. A representative gel out of three obtained on different sets of cultured neurons is illustrated. Arrows indicate the spots that are specifically phosphorylated upon DHPG treatment but not following IGF-1 or PACAP challenges. Arrowheads show the positions of spots that are phosphorylated in neurons exposed to IGF-1 or PACAP but are not detectable in gels obtained from DHPG-treated neurons. Proteins phosphorylated in neurons treated with IGF-1, PACAP or DHPG are not indexed.