

Di-4-ANEPPS is a potential responsive probe. It is used to follow changes in membrane potential on perfused animal hearts. Di-4-ANEPPS and other probes from ANEPPS group respond to increases in membrane potential with a decrease in fluorescence excited at approximately 440 nm and an increase in fluorescence excited at 530 nm. This fluorescence shift and intensity change is used in fluorescence emission ratio measurements. Potential responsive probes are sensitive to solvent properties in these kind of measurements. We try to find out how much di-4-ANEPPS dependent on solvent polarity is.