Table 1. Effect of DIDS on acceleration (A) and membrane permeability to HCO_3^- (P_{m,HCO_3^-}) and CO_2 (P_{m,CO_2})

	Intact red cells	Hemolysate	Intact red cells + DIDS
Acceleration (A)	17,220 ± 1,120	17,780 ± 4,410	17,710 ± 3,080
P_{m,HCO_3^-}, cm/sec	0.00164 ± 0.00015		0.00080* ± 0.00010
P_{m,CO_2}, cm/sec	>1		0.09* ± 0.04

n = 8, at 37°C and pH 7.4. Fractional red cell water volume (v) in reaction mixture averaged 0.000095. DIDS = 10^{-4} M. Acceleration (A) is the intracellular CO_2 hydration velocity constant divided by the uncatalyzed constant at 37°C (0.18 sec^{-1}). Values with * were significantly reduced; all other values were not.