

TABLE 3: Kinetic parameters for the interaction of fractionated chondroitin sulfate with immobilized L-selectin.

	Fraction	$k_a$ ( $M^{-1} s^{-1}$ )	$k_d$ ( $s^{-1}$ )	$K_A$ ( $M^{-1}$ )	$K_D$ ( $\mu M$ )
Whale cartilage	CS (untreated)	$6.16 \times 10^2$	$7.52 \times 10^{-3}$	$8.18 \times 10^4$	12.2
	B (21 kDa)	$7.58 \times 10^3$	$2.27 \times 10^{-2}$	$3.34 \times 10^5$	3.0
	C (15 kDa)	$2.31 \times 10^3$	$2.05 \times 10^{-2}$	$1.13 \times 10^5$	8.8
	E (9 kDa)	$6.05 \times 10^2$	$3.42 \times 10^{-2}$	$1.77 \times 10^4$	56.4
Bovine tracheal cartilage	CS (untreated)	$3.32 \times 10^2$	$1.30 \times 10^{-2}$	$2.56 \times 10^4$	39.1
	C (21 kDa)	$7.97 \times 10^2$	$3.48 \times 10^{-3}$	$2.23 \times 10^5$	4.5
	E (15 kDa)	$1.22 \times 10^2$	$2.30 \times 10^{-3}$	$5.29 \times 10^4$	18.9
	G (9 kDa)	$4.52 \times 10^2$	$2.37 \times 10^{-2}$	$2.00 \times 10^4$	49.9

The association rate constant ( $k_a$ ), dissociation ( $k_d$ ) rate constant, equilibrium association constant ( $K_A$ ) and equilibrium dissociation constant ( $K_D$ ) for the interaction of CS with immobilized L-selectin were determined by BIAcore. Standard errors of kinetic parameters obtained were within 15% by triplicate experiments.