Supplementary Table and Figure

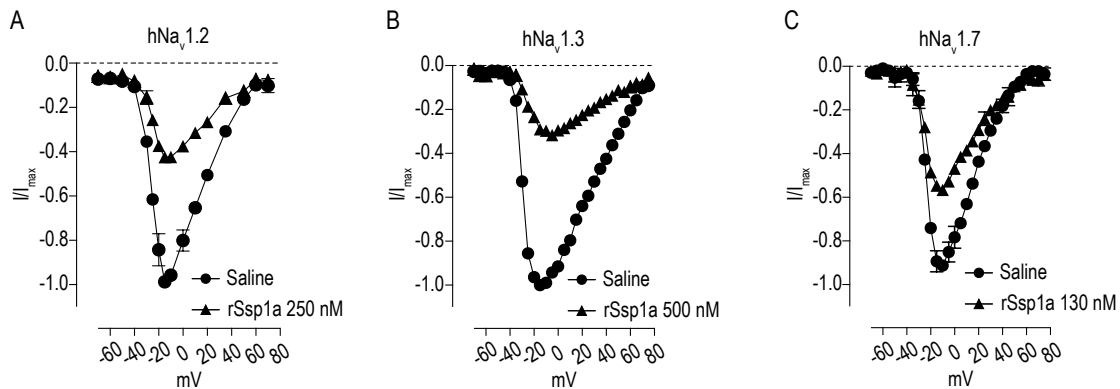| Table S1. Structural statistics for the rSsp1a ensemble	
Experimental restraints	
Interproton distance restraints	395
Intraresidue	106
Sequential	126
Medium range (i-j < 5)	57
Long range (i-j ≥5)	106
Dihedral-angle restraints	32
Hydrogen bonds	16
R.m.s. deviations from mean coordinate structure (Å)	
Backbone atoms (residue 1-17)	0.76 ± 0.27
All heavy atoms (residue 1-17)	1.38 ± 0.22
Ramachandran Statistics	
% in most favoured region	79%
% in additionally allowed region	21%

Figure S1. Effect of rSsp1a on current-voltage relationship of hNa$_V$1.2, hNa$_V$1.4 and hNa$_V$1.7. The ~IC50 rSsp1a reduced the peak current without significantly affecting the activation threshold, activation voltage and reversal potential. Each data point in the curve is mean ± SEM with n = 3–4.