Table S1: Results for optimisation of injection volume and injection speed on HEK293 cell monolayers to eliminate vehicle-induced stretch-activated calcium response.

																Ir	ijeo	tio	n sj	pee	d (µ	ιL/	s)														
			100		115			135		150		170			190		,	220		,	260		300			350			400			430					
			Replicates																																		
Injection volume (µL)	Experi ment	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
10	1	_	_	-	-	-	-	-	+	-	+	+	+	+	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2	-	-	-	-	+	1	-	-	+	-	-	1	•	-	-	-	-		1	1	-	1	-	-	-	•	-	+	+	+	+	+	+	+	+	+
	3	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-	+	+	-	-	-	+	+	+	+	+	+	+
20	1	-	-	-	-	+	+	-	+	+	+	+	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	2	-	-	-	+	+	+	+	+	+	+	-	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	3	+	-	-	+	-	+	+	-	-	+	+	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
30	1	-	+	-	+	-	+	+	+	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	2	-	-	-	-	-	1	+	-	-	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	3	-	-	-	-	-	+	+	+	-	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
40	1	-	-	-	-	-	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	2	+	+	+	+	+	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	3	-	-	+	+	-	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
50	1	+	+	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	2	+	-	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	3	+	+	+	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

(+) = activation of stretch receptor; (-) = no activation of stretch receptor; (n) = no data available.

Data collated from three independent experiments with each condition tested in triplicate (n=9).

Green shading = The optimal injection speed and injection volume chosen for use with cell monolayers. Based on these data, a 10  $\mu$ L injection volume injected at 100  $\mu$ L/s onto 290  $\mu$ L buffer covering the cell monolayer prevented stretch-activated calcium response. The final buffer volume in each well was always maintained at 300  $\mu$ L.