

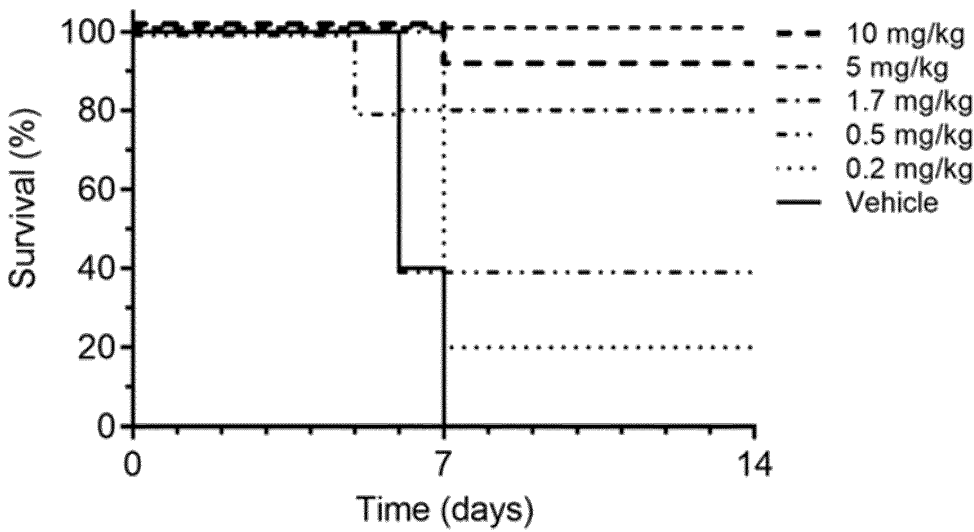


Figure 1

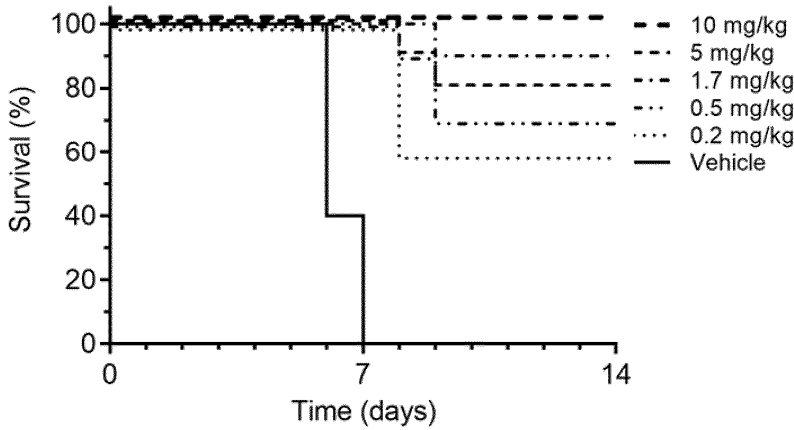


Figure 2

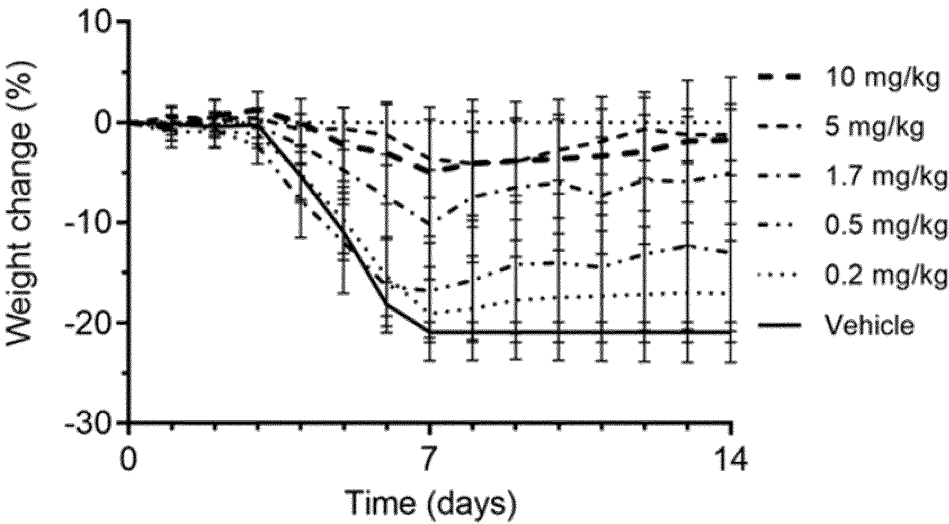


Figure 3

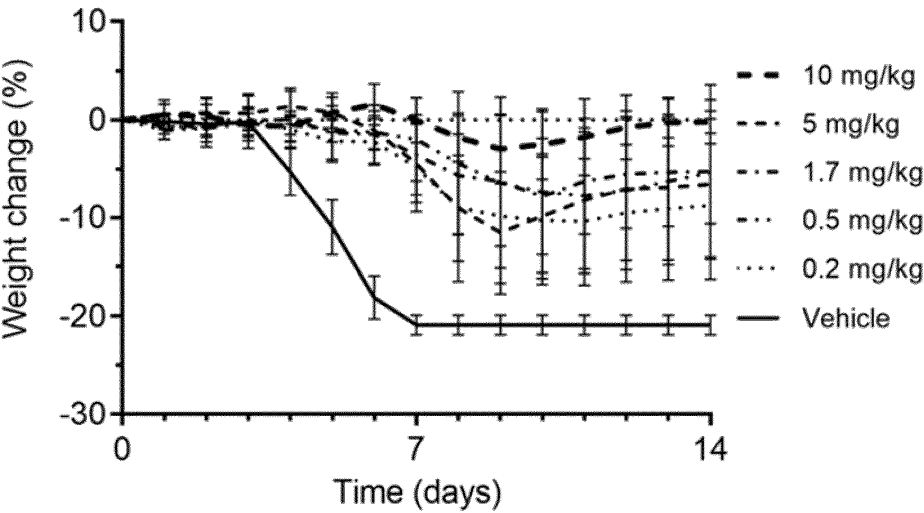
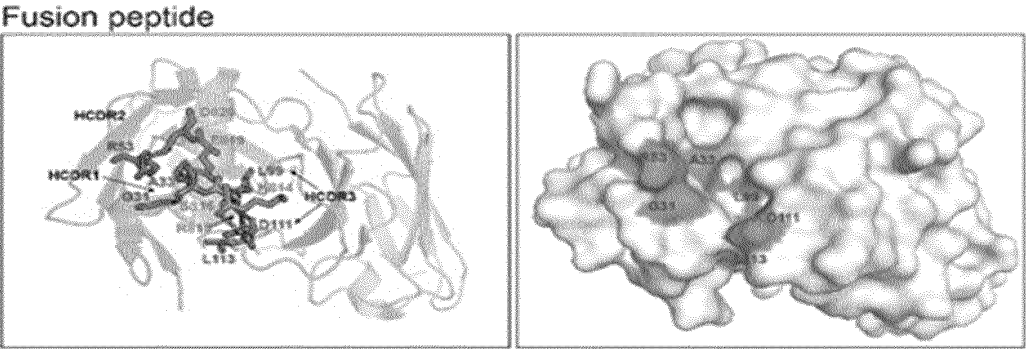


Figure 4

Fusion peptide (FP)																						
816											829											
HCoV-229E	G	S	R	V	A	G	R	S	A	I	E	D	I	L	F	S	K	L	V	T	S	*
HCoV-NL63	S	S	R	I	A	G	R	S	A	L	E	D	L	L	F	S	K	V	V	T	S	
HCoV-HKU1	C	G	S	-	S	S	R	S	L	L	E	D	L	L	F	N	K	V	K	L	S	
HCoV-OC43	C	S	K	A	S	S	R	S	A	I	E	D	L	L	F	D	K	V	K	L	S	*
SARS-CoV-1	P	L	K	P	T	K	R	S	F	I	E	D	L	L	F	N	K	V	T	L	A	*
SARS-CoV-2	P	S	K	P	S	K	R	S	F	I	E	D	L	L	F	N	K	V	T	L	A	*
MERS-CoV	T	G	S	R	S	A	R	S	A	I	E	D	L	L	F	D	K	V	T	I	A	

A



B

Figure 5