

**Supplementary information, Table S1 Anti-SFTSV activity and cytotoxicity of 14 drugs.**

Drug name	Inhibition rate		Survive rate		Indication	Target	Brief Description
	Replicate 1	Replicate 2	Replicate 1	Replicate 2			
Apatinib (YN968D1)	91.62	84.30	79.41	87.07	Cancer	VEGFR	Apatinib (YN968D1) is a small-molecule selective multitargeted tyrosine kinase inhibitor with an IC <sub>50</sub> of 2.43 nM for the inhibition of VEGFR2.
Avobenzone (Parsol 1789)	88.22	91.15	81.44	74.70			Avobenzone (Parsol 1789) is an oil soluble ingredient used in sunscreen products to absorb the full spectrum of UVA rays and a dibenzoylmethane derivative.
Benidipine hydrochloride	98.09	99.03	76.54	73.87	Cardiovascular Disease	calcium channel	Benidipine HCl is a hydrochloride salt form of benidipine which is a dihydropyridine calcium channel blocker.
Dipyridamole	81.44	80.61	95.63	83.13	Cardiovascular		Dipyridamole (Permole,

(Persantine)

Disease

Persantine) is a phosphodiesterase inhibitor that blocks uptake and metabolism of adenosine by erythrocytes and vascular endothelial cells.

Dutasteride

82.41

77.86

71.95

71.85

Endocrinology

5-alpha Reductase

5-alpha-reductase inhibitor

Elvitegravir (GS-9137)

69.42

85.46

79.78

78.24

Immunology

Integrase

Elvitegravir is a human immunodeficiency virus integrase inhibitor with EC<sub>50</sub> of 0.7, 2.8 and 1.4 for HIV-1 IIIB, HIV-2 EHO and HIV-2 ROD.

Fenofibrate (Tricor, Trilipix)

91.40

93.76

72.69

81.43

Cardiovascular Disease

Fenofibrate (Tricor, Trilipix) is a drug of the fibrate class and fibric acid derivative

Lomerizine HCl

91.30

90.12

98.68

84.37

Cardiovascular Disease

calcium channel

Lomerizine dihydrochloride is a relatively new L- and T-type calcium channel blocker used in the treatment of migraine.

Mifepristone (Mifeprex)	73.35	86.04	75.18	70.39	Metabolic Disease	Estrogen/progestogen Receptor	Mifepristone (Mifeprex, RU-486, RU-38486, Mifegyne) is a remarkably active antagonist of progesterone receptor and glucocorticoid receptor with IC <sub>50</sub> of 0.2 nM and 2.6 nM, respectively.
Mycophenolic acid* (Mycophenolate)	86.54	80.52	88.28	129.34	Infection		Mycophenolic acid (Mycophenolate) is an immunosuppressant drug used to prevent rejection in organ transplantation.
Progesterone (Prometrium)	78.81	78.99	87.53	88.53	Endocrinology		Progesterone (Prometrium) is a C-21 steroid hormone.
Terbinafine (Lamisil, Terbinex)	91.93	91.46	72.82	78.40	Infection		Terbinafine (Lamisil, Terbinex) is used to treat infections caused by a fungus. It works by killing the fungus or preventing its growth.
Tolnaftate	81.84	83.48	70.73	92.45	Cancer		Tolnaftate is a synthetic thiocarbamate used as an

Triclabendazole	77.45	81.84	76.62	70.43	Vermifuge	anti-fungal agent. Triclabendazole is a benzimidazole, it binds to tubulin impairing intracellular transport mechanisms and interferes with protein synthesis.
Vitamin D2	82.40	86.72	101.91	103.60	Endocrinology	Vitamin D2 is a selective inhibitor of mammalian DNA polymerase A (pol A) with IC <sub>50</sub> of 123 mM.

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\*Mycophenolic acid (MPA) is a positive control of anti-SFTSV compound.