Series 1	R	Vero E6	HTNV	Vero-76	MT-4	MDBK	BHK-21
compounds		$\rm CC_{50}^{a}$	$EC_{50}^{b}$		$\rm CC_{50}^{c}$		
a	NH <sub>2</sub>	>30	>30	>100	≥100	>100	>100
b	NHCOCH <sub>3</sub>	20	>20	30	35	43	53
с	NHCOCH <sub>2</sub> CH <sub>3</sub>	20	>20	30	28	≥100	54
e	N(COCH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub>	25	>25	20	35	14	16
f	NHCO-4-CH <sub>3</sub> -Ph	>30	>30	>100	>100	>100	≥100
g	NHCO-4-Cl-Ph	>30	≥30	≥100	>100	>100	>100
h	NHCO-4-NO <sub>2</sub> -Ph	>30	21	>100	>100	>100	96
i	NHCO-4-OCH <sub>3</sub> -Ph	>30	>30	>100	33	>100	>100
j	NHCO-3,4,5-OCH <sub>3</sub> -Ph	>30	>30	90	77	>100	>100
Series 2							
compounds							
a	NH <sub>2</sub>	>30	>30	≥100	52	≥100	>100
b	NHCOCH <sub>3</sub>	>30	>30	>100	>100	>100	>100
c	NHCOCH <sub>2</sub> CH <sub>3</sub>	>30	>30	>100	>100	>100	>100
d	N(COCH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub>	>30	>30	≥100	15	73	26
e	N(COCH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub>	>30	>30	≥100	24	84	62
f	NHCO-4-CH <sub>3</sub> -Ph	>30	22	>100	>100	>100	>100
g	NHCO-4-Cl-Ph	>30	>30	95	>100	>100	>100
h	NHCO-4-NO <sub>2</sub> -Ph	>30	>30	>100	>100	>100	>100
i	NHCO-4-OCH <sub>3</sub> -Ph	>30	>30	>100	≥100	>100	>100
j	NHCO-3,4,5-OCH <sub>3</sub> -Ph	>30	4 (>7.5)	80	63	>100	35
k	NHCONHCH <sub>2</sub> CH <sub>3</sub>	>30	26	>100	>100	>100	>100
1	NHCONH(CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub>	30	5 (6)	30	>100	78	40
m	NHCONH(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	>30	>30	95	>100	>100	>100
n	NHCONH-cyclohexyl	>30	4 (>7.5)	90	>100	>100	71
Series 3							
compounds							
f	NHCO-4-CH <sub>3</sub> -Ph	>30	>30	>100	>100	>100	>100
j	NHCO-3,4,5-OCH <sub>3</sub> -Ph	>30	>30	>100	>100	>100	>100
k	NHCONHCH <sub>2</sub> CH <sub>3</sub>	>30	>30	>100	nd	>100	>100
l	NHCONH(CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub>	>30	>30	>100	>100	>100	>100
m	NHCONH(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	>30	>30	>100	>100	>100	>100
n	NHCONH-cyclohexyl	>30	>30	95	>100	>100	>100
Sarias 1	<u> </u>			II			<u> </u>
compounds							
compounds							
f	NHCO-4-CH <sub>3</sub> -Ph	>30	>30	>100	>100	>100	>100
j	NHCO-3,4,5-OCH <sub>3</sub> -Ph	>30	>30	>100	nd	>100	>100
k	NHCONHCH <sub>2</sub> CH <sub>3</sub>	>30	>30	>100	>100	>100	>100
l	NHCONH(CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub>	>30	>30	>100	>100	>100	>100
m	NHCONH(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	>30	>30	>100	>100	>100	>100
n	NHCONH-cyclohexyl	>30	>30	95	>100	>100	>100
Reference compound							
Ribavirin RBV		>100	37 (>2)				

Table S1. Cytotoxicity and antiviral activity of phenyl-benzotriazoles against HTNV

Data represent mean values + SD for three independent determinations. For values where SD is not shown, variation among triplicate samples was less than 15%. Results for active compounds are in bold character.

<sup>a</sup>Compound concentration ( $\mu$ M) affecting the morphology of Vero-E6 monolayers, as determined by optical microscope examination. <sup>b</sup>Compound concentration ( $\mu$ M) required to reduce the foci number of HTNV by 50% in Vero E6 monolayers.

<sup>c</sup>Compound concentration ( $\mu$ M) required to reduce the viability of mock-infected MT-4, Vero-76, MDBK and BHK21 cells by 50%, as determined by the MTT method.

() Selectivity Index

Cells

Cell lines were purchased from American Type Culture Collection (ATCC): Vero E6 cells (ATCC CRL 1586) [B. Klempa, P. T. Witkowski, E. Popugaeva, B. Auste, L. Koivogui, E. Fichet-Calvet, T. Strecker, J. ter Meulen, D. H. Krüger, Sangassou Virus, the First Hantavirus Isolate from Africa, Displays Genetic and Functional Properties Distinct from Those of Other Murinae-Associated Hantaviruses. J Virol. (2012); 86(7): 3819–3827]; CD4+ human T-cells containing an integrated HTLV-1 genome (MT-4) ; Madin Darby Bovine Kidney (MDBK) [ATCC CCL 22 (NBL-1) Bos Taurus]; Baby Hamster Kidney (BHK-21) [ATCC CCL 10 (C-13) Mesocricetus auratus]; Monkey kidney (Vero-76) [ATCC CRL 1587 Cercopithecus Aethiops] [G. Sanna, S. Madeddu, G. Giliberti, S. Piras, M. Struga, M. Wrzosek, G. Kubiak-Tomaszewska, A.E Koziol, O. Savchenko, T. Lis, J. Stefanska, P. Tomaszewski, M. Skrzycki, D. Szulczyk, Synthesis and Biological Evaluation of Novel Indole-Derived Thioureas. *Molecules* (2018), *23*, 2554].

Cytotoxicity assays

Exponentially growing MT-4 cells were seeded at an initial density of  $4x10^5$  cells/ml in 96-well plates in RPMI-1640 medium, supplemented with 10% fetal bovine serum (FBS), 100 units/mL penicillin G and 100 µg/mL streptomycin. MDBK, BHK were seeded in 96-well plates at an initial density of 6x10<sup>5</sup> and 1x10<sup>6</sup>, respectively, in Minimum Essential Medium with Earle's salts (MEM-E), L-glutamine, 1mM sodium pyruvate and 25 mg/L kanamycin, supplemented with 10% horse serum (MDBK) or 10% fetal bovine serum (FBS) (BHK-21). Vero-76 cells were seeded in 96-well plates at an initial density of 5x10<sup>5</sup> cells/mL, in Dulbecco's Modified Eagle Medium (D-MEM) with L-glutamine and 25 mg/L kanamycin, supplemented with 10% FBS. Cell cultures were then incubated at 37 °C in a humidified, 5% CO<sub>2</sub> atmosphere, in the absence or presence of serial dilutions of test compounds. The test medium used for the cytotoxic assay as well as for antiviral assay contained 1% of the appropriate serum. Cell viability was determined after 72-120 hrs at 37 °C by MTT method [R. Pauwels, J. Balzarini, M. Baba, R. Snoeck, D. Schols, P. Herdewijn, J. Desmyter, E. De Clercq, Rapid and automated tetrazolium-based colorimetric assay for the detection of anti-HIV compounds, J. Virol. Methods 20 (1988) 309-321]. Vero E6 cells were seeded at an initial density of 4x 10<sup>5</sup> cells/mL in 6-well plates, in culture medium (EMEM 25mM HEPES buffer) supplemented with 1% L-glutamine, 10% fetal bovine serum (FBS), 1% sodium pyruvate (NaPy), 1% non-essential amino acids (NEAA) and 0.1% gentamycin. Cell cultures were then incubated at 37 °C in a humidified, 5% CO2 atmosphere in the absence or presence of serial dilutions of test compounds. Cell viability was determined after 7 days at 37 °C by the Crystal violet staining method.