

# **READDI EXP0185:**

## **Alphavirus Helicase**

VEEV and CHIKV Antiviral Assay  
7-hour CellTiter-Glo Cytotoxicity Assay

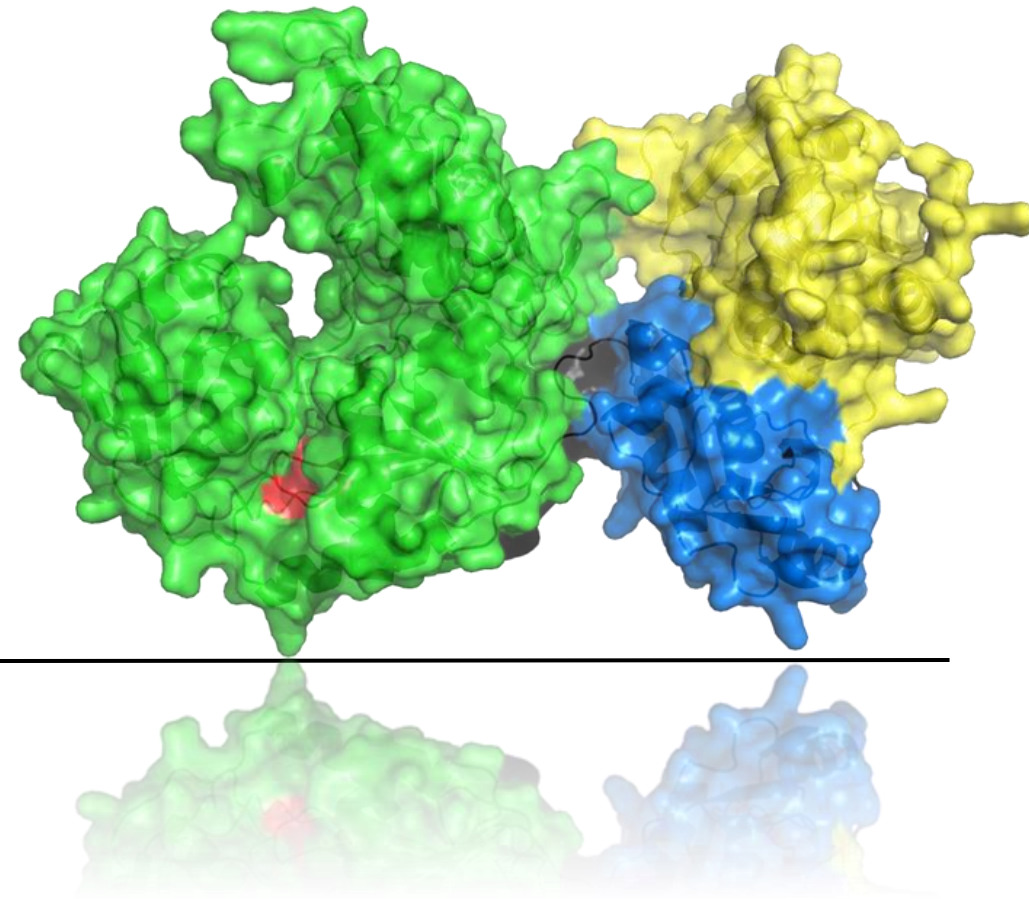
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**Sabian A. Martinez**

August 15, 2024

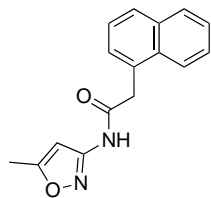
University of North Carolina – Chapel Hill

Department of Genetics – Heise Laboratory



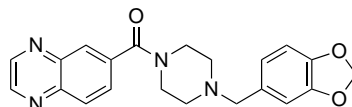
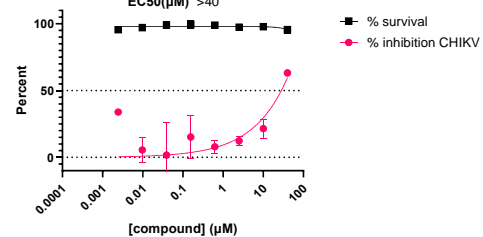
Investigator ID	Heise-Antiviral-DoseResponse-StartingConcentration(μM)	Heise-CHIKV181/25nLucMRC5s&hTERTsAntiviral-DoseResponse-%Inhibition at 40μM	Heise-CHIKV181/25nLucMRC5s&hTERTsAntiviral-DoseResponse-EC50(μM)	Heise-CHIKV181/25nLucMRC5s&hTERTsAntiviral-DoseResponse-HillSlope	Heise-VEEVC83nLucMRC5s&hTERTsAntiviral-DoseResponse-%Inhibition at 40μM	Heise-VEEVC83nLucMRC5s&hTERTsAntiviral-DoseResponse-EC50(μM)	Heise-VEEVC83nLucMRC5s&hTERTsAntiviral-DoseResponse-HillSlope	Heise-CellTiterGlo2.0MRC5s&hTERTs-DoseResponse-%Viability at 40μM	Heise-CellTiterGlo2.0MRC5s&hTERTs-7hr-DoseResponse-CC50(μM)	Heise-CellTiterGlo2.0MRC5s&hTERTs-7hr-DoseResponse-HillSlope
RA-0093052-03	40	63.24320667	>40	0.505	65.04441	>40	1.399	95.67446667	>40	-1.993
RA-0111811-03	40	53.77149333	>40	0.154	36.06698667	>40	0.05199	92.79452333	>40	-6.477
RA-0101545-03	40	93.63566	>40	1.105	94.38248	16.48	6.462	59.87951333	>40	-2.774
RA-0188675-01	40	78.08224667	14.13	6.967	67.00300333	>40	0.08413	84.67823	>40	-1.41
RA-0112244-03	40	87.74740333	>40	1.175	78.45186333	>40	0.08932	81.05619667	>40	-1.362
RA-0108890-03	40	33.837277	>40	0.06625	27.49177333	>40	~ 4.930e-032	96.47738	>40	-0.7809
RA-0110106-03	40	33.12275733	>40	0.0168	21.56421667	>40	11.09	91.29904	>40	-0.4273
RA-0118676-03	40	65.80694333	>40	2.503	47.78794333	>40	1.718	91.16953333	>40	-0.2005
RA-0188627-01	40	94.48126667	9.311	2.421	54.02941333	>40	2.254	86.41253333	>40	-0.8861
RA-0188628-01	40	94.81388	>40	0.3902	85.53155667	>40	1.258	94.4197	>40	~ -4.930e-032
RA-0117029-03	40	29.62269	>40	~ 4.930e-032	17.38005333	>40	~ 4.930e-032	94.37487333	>40	-1.1
RA-0188629-01	40	31.76416	>40	1.683E-19	16.74164467	>40	~ 4.930e-032	99.07904333	>40	-0.000003502
RA-0188630-01	40	80.76516333	>40	0.3564	62.67382	>40	1.263	93.08612	>40	-0.8142
RA-0188819-01	40	91.52286667	>40	0.3135	71.34202	>40	0.2373	88.39080667	>40	-2.931

# Exp0185\_% Inhibition CHIKV-181/25 nLuc in MRC-5s & h-TERTs, 6hpi\_% Viability, 7hrs



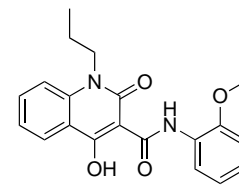
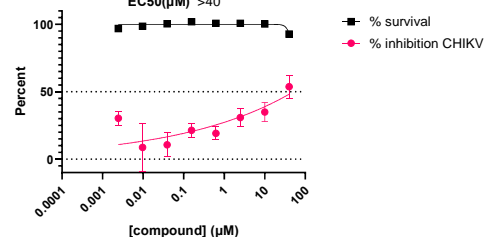
**RA-0093052**

RA-0093052-03  
EC50(μM) >40



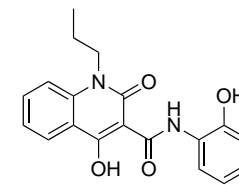
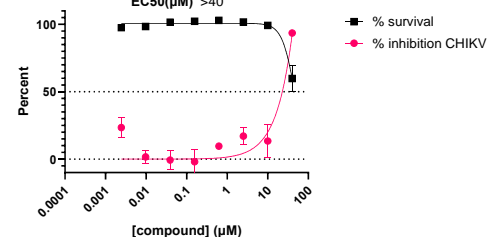
**RA-0111811**

RA-0111811-03  
EC50(μM) >40



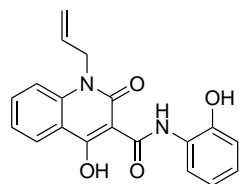
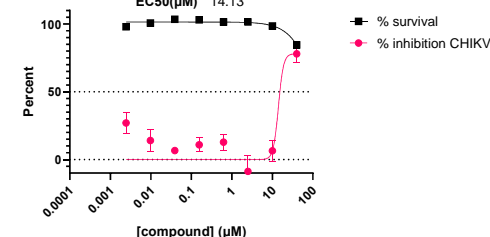
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RA-0101545-03  
EC50(μM) >40



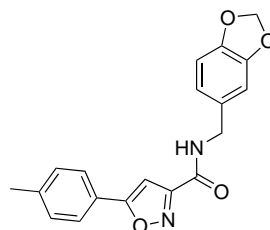
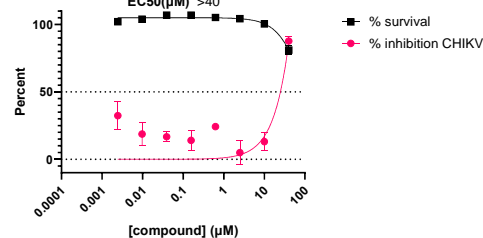
**RA-0188675**

RA-0188675-01  
EC50(μM) 14.13



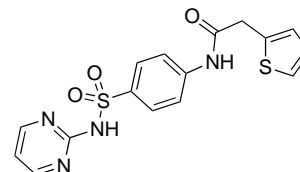
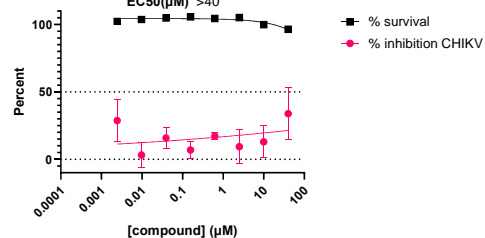
**RA-0112244**

RA-0112244-03  
EC50(μM) >40



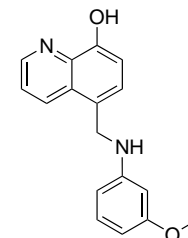
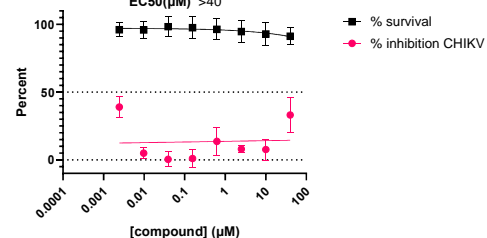
**RA-0108890**

RA-0108890-03  
EC50(μM) >40



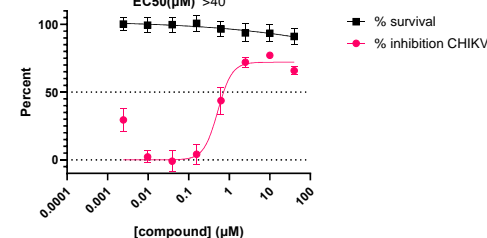
**RA-0110106**

RA-0110106-03  
EC50(μM) >40

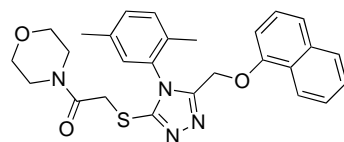


**RA-0118676**

RA-0118676-03  
EC50(μM) >40



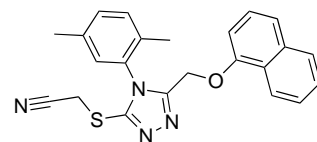
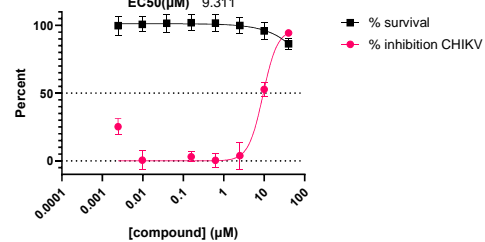
# Exp0185\_% Inhibition CHIKV-181/25 nLuc in MRC-5s & h-TERTs, 6hpi\_% Viability, 7hrs



**RA-0188627**

RA-0188627-01

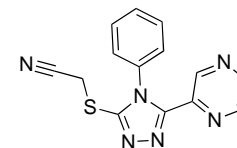
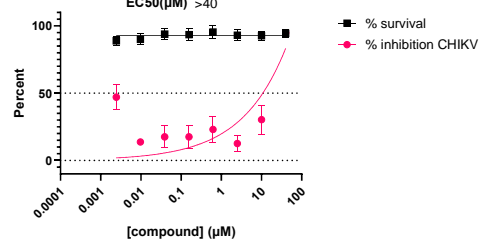
EC50(μM) 9.311



**RA-0188628**

RA-0188628-01

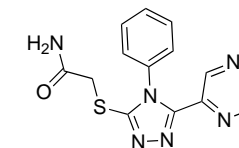
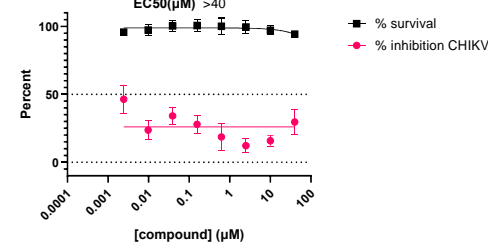
EC50(μM) >40



**RA-0117029**

RA-0117029-03

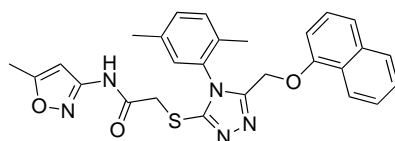
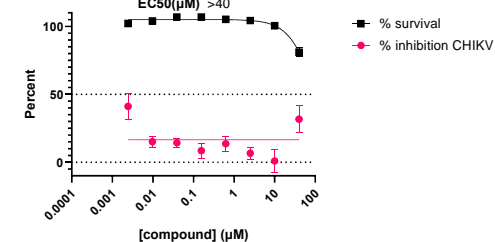
EC50(μM) >40



**RA-0188629**

RA-0188629-01

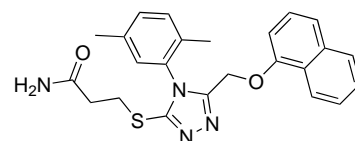
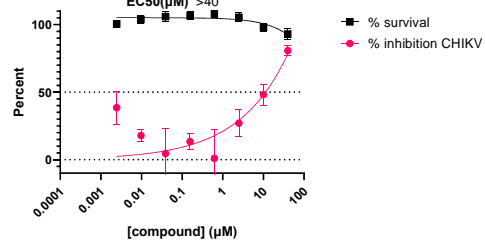
EC50(μM) >40



**RA-0188630**

RA-0188630-01

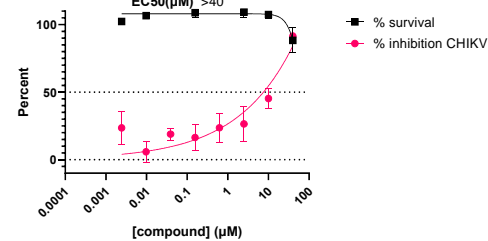
EC50(μM) >40



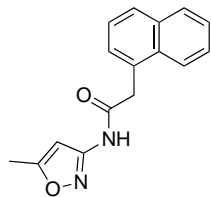
**RA-0188819**

RA-0188819-01

EC50(μM) >40



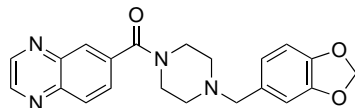
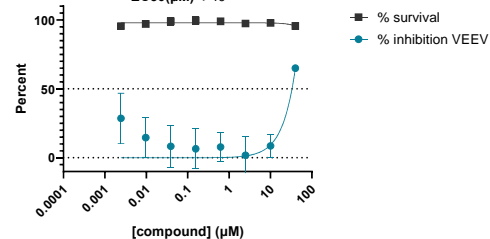
# Exp0185\_% Inhibition VEEV-TC83 nLuc in MRC-5s & h-TERTs, 6hpi\_% Viability, 7hrs



**RA-0093052**

RA-0093052-03

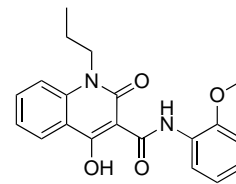
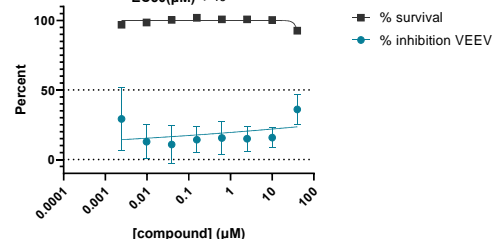
EC50(μM) >40



**RA-0111811**

RA-0111811-03

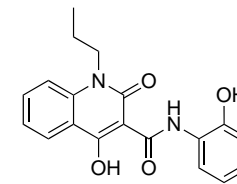
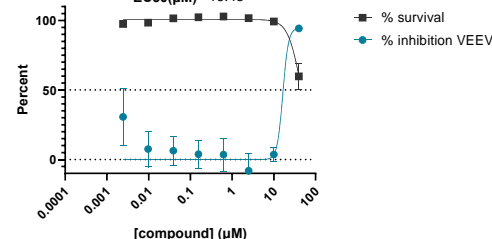
EC50(μM) >40



**RA-0101545**

RA-0101545-03

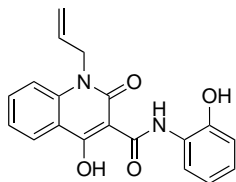
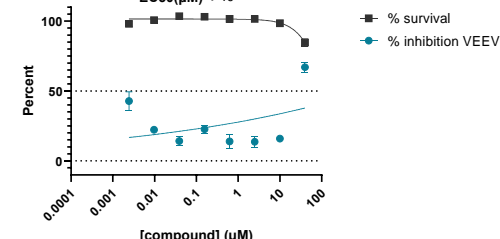
EC50(μM) 16.48



**RA-0188675**

RA-0188675-01

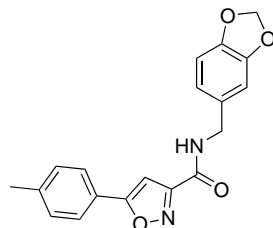
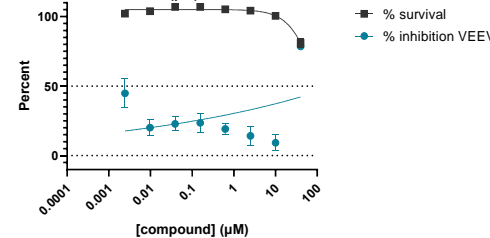
EC50(μM) >40



**RA-0112244**

RA-0112244-03

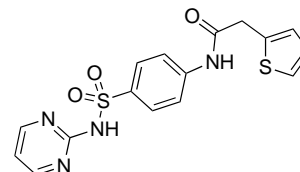
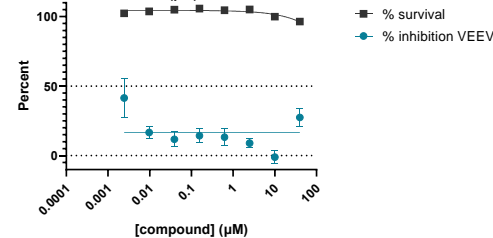
EC50(μM) >40



**RA-0108890**

RA-0108890-03

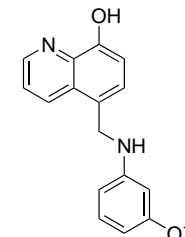
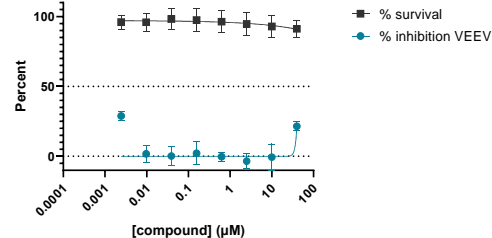
EC50(μM) >40



**RA-0110106**

RA-0110106-03

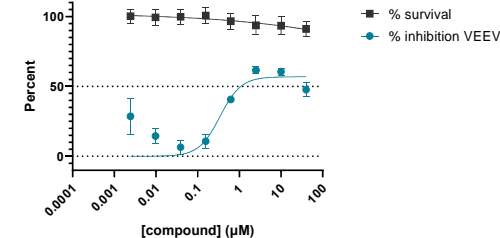
EC50(μM) >40



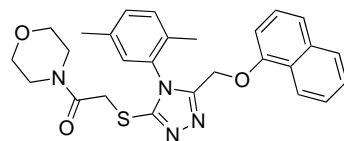
**RA-0118676**

RA-0118676-03

EC50(μM) >40



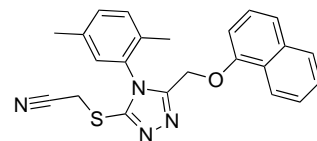
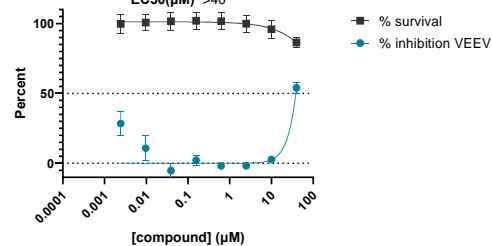
# Exp0185\_% Inhibition VEEV-TC83 nLuc in MRC-5s & h-TERTs, 6hpi\_% Viability, 7hrs



**RA-0188627**

RA-0188627-01

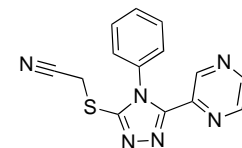
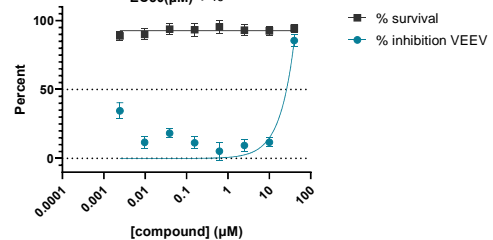
EC50(μM) >40



**RA-0188628**

RA-0188628-01

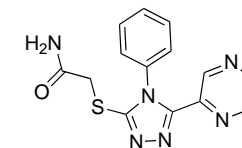
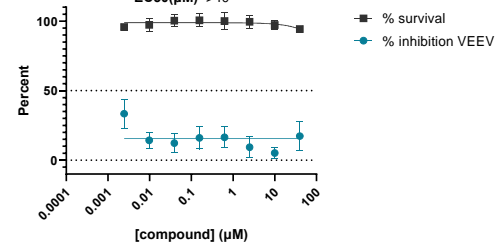
EC50(μM) >40



**RA-0117029**

RA-0117029-03

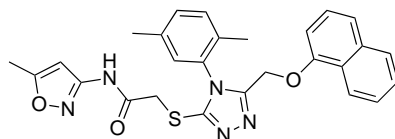
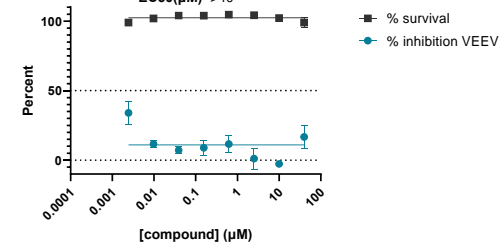
EC50(μM) >40



**RA-0188629**

RA-0188629-01

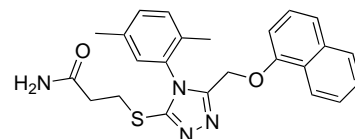
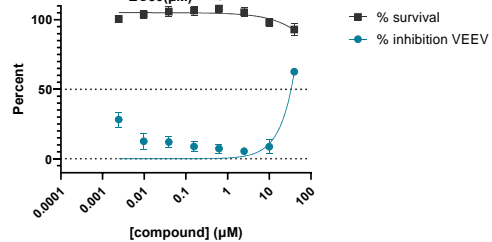
EC50(μM) >40



**RA-0188630**

RA-0188630-01

EC50(μM) >40



**RA-0188819**

RA-0188819-01

EC50(μM) >40

