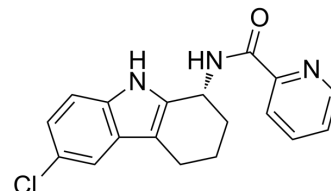


## GSK983

Cat. No.:	HY-119098
CAS No.:	827591-02-6
Molecular Formula:	C <sub>18</sub> H <sub>16</sub> ClN <sub>3</sub> O
Molecular Weight:	325.79
Target:	EBV; HPV
Pathway:	Anti-infection
Storage:	<div> <div>Powder</div> <div>-20°C</div> <div>3 years</div> </div> <div> <div></div> <div>4°C</div> <div>2 years</div> </div> <div> <div>In solvent</div> <div>-80°C</div> <div>6 months</div> </div> <div> <div></div> <div>-20°C</div> <div>1 month</div> </div>



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : ≥ 10 mg/mL (30.69 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.0695 mL	15.3473 mL	30.6946 mL
	5 mM		0.6139 mL	3.0695 mL	6.1389 mL
	10 mM		0.3069 mL	1.5347 mL	3.0695 mL

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

GSK983 is a broad-spectrum antiviral agent. GSK983 inhibits the replication of adenovirus-5 (Ad-5) and polyoma virus SV40. GSK983 inhibits the growth of cell lines immortalized by EBV, HTLV1, HPV. GSK983 induces the expression of interferon-stimulated genes<sup>[1]</sup>.

### In Vitro

GSK983 (0-10000 nM; 2 h) inhibits replication of adenovirus-5 (Ad-5) in primary human fibroblasts (HFF) and polyoma virus SV40 in Vero cells with the median effect concentration (K) of 21 nM, 7.5 nM; and maximum inhibition (I max) of 99%, 88%, respectively<sup>[1]</sup>.

GSK983 (0-10000 nM; 72 h) inhibits the growth of cell lines immortalized by viral infection with the median effect concentration (K) of 16, 14, 7.5 nM for IM9 (EBV), B-LCL 5/2/1 (EBV), MT4 (HTLV1) cells, respectively<sup>[1]</sup>.

GSK983 (10, 100 nM; 24, 48 h) induces the expression of interferon-stimulated genes in W12, HKC cells<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

RT-PCR<sup>[1]</sup>

Cell Line:	W12, HKC cells
Concentration:	10, 100 nM
Incubation Time:	24, 48 h
Result:	Induced the expression of interferon-stimulated genes in infected and immortalized cells, increased the gene expression of CSF2, IFIT1 (ISG56), IL6, ISG15, OAS1, OAS2, OASL and TNFSF10 (TRAIL).

## REFERENCES

[1]. Harvey R, et al. GSK983: a novel compound with broad-spectrum antiviral activity. Antiviral Res. 2009 Apr;82(1):1-11.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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