Penciclovir sodium

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BIOLOGICAL ACTIVITY		
Description	Penciclovir (VSA 671) sodium is a potent and selective anti-herpesvirus agent with EC ₅₀ values of 0.5, 0.8 μg/ml for HSV-1 (HFEM), HSV-2 (MS), respectively. Penciclovir sodium shows anti-herpesvirus activity with no-toxic. Penciclovir sodium preventes mortality in mouse ^{[1][2]} .	
IC ₅₀ & Target	HSV-1 0.5 μg/mL (EC50)	HSV-2 0.8 μg/mL (EC50)
In Vitro	Penciclovir sodium (0-100 μg/ml) shows anti-herpesvirus activity with EC ₅₀ s of 0.5, 0.8, 2.4, 52, 100, 1.2, 1.6, 0.9, >100 μg/ml for HSV-1 (HFEM), HSV-2 (MS), VZV (Ellen), CMV (AD-169), BHV-1 (Oxford 1964), BHV-2 (New York 1), EHV-1(Quai Hals), FHV-1 (B927), SVV, respectively ^[1] . Penciclovir sodium (0-100 μg/ml) shows no-toxic to uninfected human cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[1]	
	Cell Line:	MRC-5,WISH, Flow 4000, Flow 12000, RPMI 2650, WI-38, WI-38 VA13, Hs68, HEp-2, RD, SCC- 13,Primary cells
	Concentration:	0-100 μg/ml
	Incubation Time:	
	Result:	Showed no-toxic with IC ₅₀ s of >100, >100, 100, >100, 60, >100, >100, >100, >100, >100, >100, >100, >100, >100, >100 for MRC-5,WISH, Flow 4000, Flow 12000, RPMI 2650, WI-38, WI-38 VA13, Hs68, HEp-2, RD, SCC-13,Primary cells, respectively.
In Vivo	Penciclovir sodium (100 mg/kg; s.c.; daily for 5 days) preventes mortality in mouse ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Three-week-old female Balb/c mice ^[2]
	Dosage:	100 mg/kg
	Administration:	S.c.; daily for 5 days

CUSTOMER VALIDATION

• Microchem J. 2021, 106587.

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REFERENCES

[1]. M.R. Boyd, et al. Penciclovir: a review of its spectrum of activity, selectivity, and cross-resistance pattern. Antiviral Chemistry and Chemotherapy, 1993, (1): 3-11.

[2]. de la Fuente R, et al. The acyclic nucleoside analogue penciclovir is a potent inhibitor of equine herpesvirus type 1 (EHV-1) in tissue culture and in a murine model. Antiviral Res. 1992 May;18(1):77-89.

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

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