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Zuschläge

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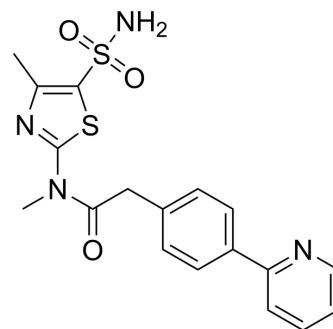
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Pritelivir

Cat. No.:	HY-15303
CAS No.:	348086-71-5
Molecular Formula:	C ₁₈ H ₁₆ N ₄ O ₃ S ₂
Molecular Weight:	402.49
Target:	HSV
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 33 mg/mL (81.99 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4845 mL	12.4227 mL	24.8453 mL
	5 mM		0.4969 mL	2.4845 mL	4.9691 mL
	10 mM		0.2485 mL	1.2423 mL	2.4845 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pritelivir (AIC316), an inhibitor of the viral helicase-primase complex, exhibits antiviral activity in vitro and in animal models of herpes simplex virus (HSV) infection. Pritelivir is active against herpes simplex virus types 1 and 2 (HSV-1 and HSV-2) with the IC₅₀ of 0.02 μM against HSV1-2^[1].

IC₅₀ & Target

HSV-1 0.02 μM (IC ₅₀)	HSV-2 0.02 μM (IC ₅₀)
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In Vivo

Pritelivir is the first in a class of antiviral agents that inhibit HSV replication by targeting the viral helicase-primase enzyme complex^[2].
Pritelivir (0.03-45 mg/kg) significantly increases survival. Pritelivir (0.3-30 mg/kg) reduces mortality against HSV-1, E-377. Pritelivir has potent and resistance-breaking antiviral efficacy with potential for the treatment of potentially life-threatening HSV type 1 and 2 infections, including herpes simplex encephalitis^[3].
Combination therapies of Pritelivir at 0.1 or 0.3 mg/kg/dose with Acyclovir (10 mg/kg/dose) are protective when compared to the vehicle treated group against HSV-2, strain MS^[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female BALB/c mice ^[3]
Dosage:	0.03 to 45 mg/kg
Administration:	Administered orally, twice daily at approximately 12 h intervals, for 7 days
Result:	Survival was significantly increased to 80-100% as compared to the vehicle treatment. Even the lowest dose of 0.3 mg/kg was effective in increasing survival to 53%.

CUSTOMER VALIDATION

- J Infect Dis. 2023 May 24;jjad184.
- J Antimicrob Chemother. 2022 Sep 5;dkac297.
- Antivir Res. 2020 Nov;183:104931.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Ligat G, et al. Identification of Amino Acids Essential for Viral Replication in the HCMV Helicase-PrimaseComplex. Front Microbiol. 2018 Oct 23;9:2483.
- [2]. Wald A, et al. Helicase-primase inhibitor Pritelivir for HSV-2 infection. N Engl J Med. 2014 Jan 16;370(3):201-10.
- [3]. Quenelle DC, et al. Efficacy of pritelivir and acyclovir in the treatment of herpes simplex virus infections in a mouse model of herpes simplex encephalitis. Antiviral Res. 2018 Jan;149:1-6.

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

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