Pritelivir (BAY 57-1293)

Catalog No.C12768 Batch:C1276803

Product Datasheet

Technical Data

Formula	$C_{18}H_{18}N_4O_3S_2$					
Molecular Weight	402.49	**CAS No.**	348086-71-5			
Solubility (25°C)*	In vitro	DMSO	80 mg/mL (198.76 mM)			
		Water	Insoluble			
		Ethanol	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.
		Injection	Clear solution	5%DMSO [1] → 40%PEG300 [2] → 5%Tween80 [3] → 50%ddH2O Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	4mg/ml (9.94mM)	Taking the 1 mL working solution as an example, add 50 μL of 80 mg/ml clarified DMSO stock solution to 400 μL of PEG300, mix evenly to clarify it; add 50 μL of Tween80 to the above system, mix evenly to clarify; then continue to add 500 μL of ddH2O to adjust the volume to 1 mL. The mixed solution should be used immediately for optimal results.
			Clear solution	5% DMSO [1] → 95% Corn oil Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	0.57mg/ml (1.42mM)	Taking the 1 mL working solution as an example, add 50 μL of 11.4 mg/ml clear DMSO stock solution to 950 μL of corn oil and mix evenly. The mixed solution should be used immediately for optimal results.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume / Mass	1 mg	5 mg	10 mg
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
50 mM	0.0497 mL	0.2485 mL	0.4969 mL

Biological Activity

Description	Pritelivir (BAY 57-1293, AIC316) is a potent **helicase primase** inhibitor that exhibits antiviral effects on herpes simplex virus (HSV), with an **IC50** of 20 nM for both HSV-1 and HSV-2.
Targets	helicase primase [1]
In vitro	Pritelivir (BAY 57-1293) directly inhibits the ATPase activity of the viral helicase-primase enzyme complex in a dose-dependent manner. It also shows potent antiviral activity against acyclovir resistant HSV mutants. [1] This compound reduces Aβ and P-tau induced by herpes simplex virus type 1 in vero cells. [3]
In vivo	Pritelivir (BAY 57-1293) (p.o.) shows profound antiviral activity in murine and rat lethal challenge models of disseminated herpes (0.5 mg/kg), in a murine zosteriform spread model of cutaneous disease (15 mg/kg), and in a murine ocular herpes model. [2]

Protocol (from reference)

Animal Study: [2]

- **Animal Models**
  Murine and rat lethal challenge models of disseminated herpes, a murine zosteriform spread model of cutaneous disease, a murine ocular herpes model.
- **Dosages**
  Suspended in 0.5% tylose in PBS
- **Administration**
  p.o.

References

https://pubmed.ncbi.nlm.nih.gov/11927946/ https://pubmed.ncbi.nlm.nih.gov/12019088/ https://pubmed.ncbi.nlm.nih.gov/23867133/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

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EU Headquarters
Gajeva ulica 28, HR-10000 Zagreb, Croatia

US Headquarters
12222 Merit Dr STE 130 Dallas, Texas, 75251

UK Headquarters
121 ABILITY HOUSE, BROOKER ROAD, EN9 1JH, ESSEX

Orders: Sales@capsidbio.com
Enquiries: info@capsidbio.com
www.capsidbio.com