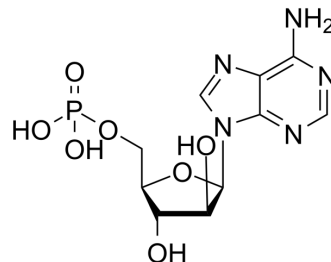


## Vidarabine phosphate

<b>Cat. No.:</b>	HY-B0277A
<b>CAS No.:</b>	29984-33-6
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> O <sub>7</sub> P
<b>Molecular Weight:</b>	347.22
<b>Target:</b>	Antibiotic; HBV
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 16.67 mg/mL (48.01 mM); ultrasonic and warming and heat to 60°C)  
 H<sub>2</sub>O : 4.9 mg/mL (14.11 mM); ultrasonic and warming and adjust pH to 7 with NaOH and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.8800 mL	14.4001 mL	28.8002 mL
	5 mM	0.5760 mL	2.8800 mL	5.7600 mL
	10 mM	0.2880 mL	1.4400 mL	2.8800 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: ≥ 1.67 mg/mL (4.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 1.67 mg/mL (4.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.67 mg/mL (4.81 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Vidarabine phosphate (Ara-AMP), an antiviral agent, inhibits chronic HBV infection<sup>[1][2]</sup>. Vidarabine phosphate also against herpes simplex and varicella zoster viruses<sup>[3]</sup>.

### REFERENCES

- [1]. A W Gough, et al. Comparison of the neonatal toxicity of two antiviral agents: vidarabine phosphate and cytarabine. Toxicol Appl Pharmacol. 1982 Oct;66(1):143-52.

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[2]. C I Smith, et al. Vidarabine monophosphate and human leukocyte interferon in chronic hepatitis B infection. JAMA. 1982 Apr 23;247(16):2261-5.

[3]. D Kinchington. Recent advances in antiviral therapy. J Clin Pathol. 1999 Feb;52(2):89-94.

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

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