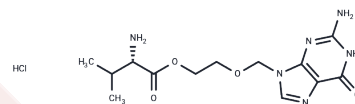


## Valacyclovir hydrochloride

## Chemical Properties

CAS No. :	124832-27-5
Formula:	C <sub>13</sub> H <sub>20</sub> N <sub>6</sub> O <sub>4</sub> ·HCl
Molecular Weight:	360.80
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Valacyclovir hydrochloride (Valaciclovir hydrochloride) is an acyclovir prodrug that, upon metabolism, inhibits viral DNA replication.
Targets(IC50)	Antibacterial,Antibiotic,HSV,DNA/RNA Synthesis
In vitro	In male CD rats, Valaciclovir was absorbed orally, efficiently metabolized and rapidly distributed.
In vivo	Valaciclovir is the L-valine ester of aciclovir, the absorption of which occurs in the intestinal lumen and is converted to the L-valine ester of aciclovir.Valaciclovir inhibits the uptake of dipeptide transporter protein substrates, e.g., cephalosporin.

## Solubility Information

Solubility	DMSO: 20.4 mg/mL (56.54 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.54 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.7716 mL	13.8581 mL	27.7162 mL
5 mM	0.5543 mL	2.7716 mL	5.5432 mL
10 mM	0.2772 mL	1.3858 mL	2.7716 mL
50 mM	0.0554 mL	0.2772 mL	0.5543 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- MacDougall C, et al. *J Antimicrob Chemother*,2004,3(6), 899-901.  
Patel R, et al. *Expert Opin Investig Drugs*,1997, 6(2), 173-189.  
de Miranda P, et al. *Drug Metab Dispos*,1994, 22(1), 55-59.  
Burnette TC, et al. *Drug Metab Dispos*,1994, 22(1), 60-64.

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