Data Sheet (Cat.No.T1087)

TargetMol

Valacyclovir hydrochloride

Chemical Properties

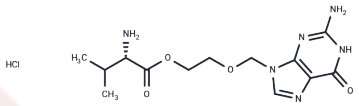
CAS No. : 124832-27-5

Formula: C13H20N6O4·HCl

Molecular Weight: 360.8

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Valacyclovir hydrochloride (Valaciclovir hydrochloride) is an acyclovir prodrug that, upon metabolism, inhibits viral DNA replication.
Targets(IC50)	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: 55 mg/mL (152.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	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

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.

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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