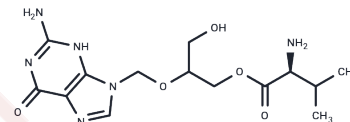


Valganciclovir

Chemical Properties

CAS No. :	175865-60-8
Formula:	C ₁₄ H ₂₂ N ₆ O ₅
Molecular Weight:	354.36
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	Valganciclovir, the L-valyl ester of ganciclovir, is a prodrug effectively converted to ganciclovir in the body, serving as an antiviral medication for cytomegalovirus (CMV) infections. In vitro studies demonstrate that valganciclovir inhibits glycy sarcosine transport mediated by PEPT1 and PEPT2 in Caco-2 and SKPT cells, respectively, with competitive inhibition K(i) values of 1.68±0.30 mM for PEPT1 and 0.043±0.005 mM for PEPT2. Clinical trials indicate valganciclovir's non-inferior efficacy to ganciclovir in pre-emptive therapy for CMV, exhibiting no significant difference in viral clearance rates or toxicity levels between the treatments. Specifically, 89.5% of patients treated with valganciclovir and 83% treated with ganciclovir achieved viral clearance at 28 days (P=0.030 for non-inferiority). Additionally, valganciclovir prophylaxis at 450 mg twice daily prevented CMV reactivation in patients on an alemtuzumab-containing regimen, with none of the 20 patients experiencing reactivation (P=0.004).
Targets(IC50)	Others, Virus Protease

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.822 mL	14.1099 mL	28.2199 mL
5 mM	0.5644 mL	2.822 mL	5.644 mL
10 mM	0.2822 mL	1.411 mL	2.822 mL
50 mM	0.0564 mL	0.2822 mL	0.5644 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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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