

Valganciclovir

Catalog No: tcsc0950



Available Sizes

Size: 50mg

Size: 100mg



Specifications

CAS No:

175865-60-8

Formula:

$C_{14}H_{22}N_6O_5$

Pathway:

Anti-infection

Target:

CMV

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

354.36

Product Description

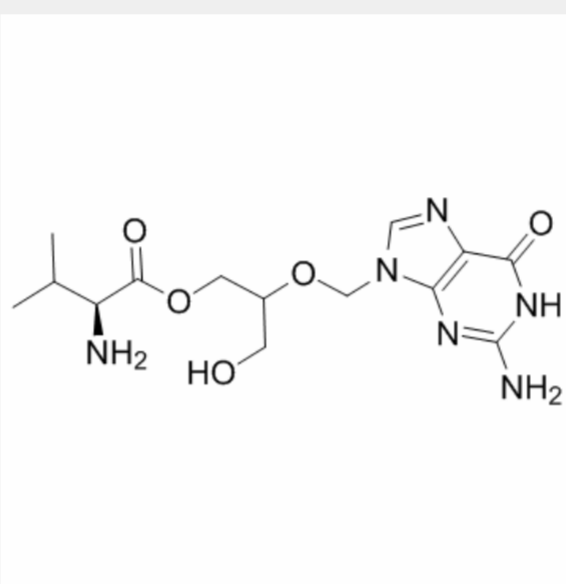
Valganciclovir, the L-valyl ester of ganciclovir, is actually a prodrug for ganciclovir. Valganciclovir is an antiviral medication used to treat cytomegalovirus infections.

IC50 Value:

Target: CMV

in vitro: In cell culture model systems using Caco-2 cells for PEPT1 and SKPT cells for PEPT2, valganciclovir inhibited glycylysarcosine transport mediated by PEPT1 and PEPT2 with $K(i)$ values (inhibition constant) of 1.68 ± 0.30 and 0.043 ± 0.005 mM, respectively. The inhibition by valganciclovir was competitive in both cases [1].

in vivo: 37 patients were enrolled; 19 patients received treatment with VGV and 18 patients received treatment with GCV. The VGV was not inferior in efficacy to GCV as pre-emptive therapy, with rates of viral clearance at 28 days of 89.5% and 83%, respectively (P-value for non-inferiority = 0.030). Toxicities were similar between the 2 arms. No patients developed CMV disease [2]. Patients being treated with an alemtuzumab-containing regimen received prophylaxis with either valaciclovir 500 mg orally daily or valganciclovir 450 mg orally twice daily. None of the 20 patients randomized to valganciclovir experienced CMV reactivation (P = .004) [3].



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