

Product Data Sheet

Product Name: Valganciclovir

Cat. No.: GC37882

Chemical Properties

Cas. No. 175865-60-8

SMILES N[C@@H](C(C)C)C(OCC(OCN1C=NC2=C1N=C(N)NC2=O)CO)=O

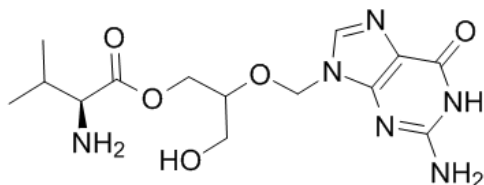
Formula $C_{14}H_{22}N_6O_5$ M.Wt 354.36

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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 glycylsarcosine 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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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].

[1]. Sugawara M, et al. Transport of valganciclovir, a ganciclovir prodrug, via peptide transporters PEPT1 and PEPT2. J Pharm Sci. 2000 Jun;89(6):781-9. [2]. Chawla JS, et al. Oral valganciclovir versus ganciclovir as delayed pre-emptive therapy for patients after allogeneic hematopoietic stem cell transplant: a pilot trial (04-0274) and review of the literature. Transpl Infect Dis. 2012 Jun;14(3):259-67. [3]. O'Brien S, et al. Valganciclovir prevents cytomegalovirus reactivation in patients receiving alemtuzumab-based therapy. Blood. 2008 Feb 15;111(4):1816-9.

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