

Product Data Sheet

Product Name: LY2334737

Cat. No.: GC17522

Chemical Properties

Cas. No. 892128-60-8

Chemical Name N-[1-[(2R,4R,5R)-3,3-difluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-2-oxopyrimidin-4-yl]-2-propylpentanamide

SMILES CCCC(CCC)C(=O)NC1=NC(=O)N(C=C1)C2C(C(C(O2)CO)O)(F)F

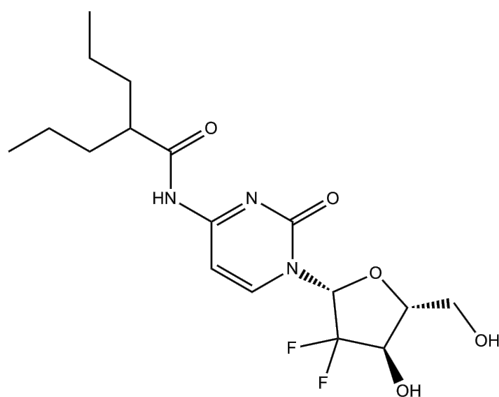
Formula C₁₇H₂₅F₂N₃O₅ M.Wt 389.39

Solubility DMSO : ≥ 100 mg/mL (256.81 mM) 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

LY2334737 is an oral prodrug of gemcitabine, the clinically efficacious anticancer agent [1].

LY2334737 has been shown the hydrolytic activity by carboxylesterase 2 (CES2). The Michaelis-Menten kinetic parameters are exhibited to be : Km of 43μM and Vmax of 40nmol/min/mg protein. In addition, LY2334737 has been found to be cytotoxic to cells in the NCI-60 panel with the EC50 values of 0.512±0.016μM, 0.402±0.018μM and 0.034±0.002μM for PC-GFP alone, HCT-116 mock transfectant and HCT-116 CES2 transfectant cell lines, respectively. Apart from these, the study

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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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result has been noted that parental SK-OV-3 cells were approximately 4-fold more sensitive to LY2334737 cytotoxicity than the SK-OV-3 knockdown with the EC50 values of 1.1 μ M and 4.5 μ M, respectively [1].

References:

[1] Pratt SE1, Durland-Busbice S, Shepard RL, Heinz-Taheny K, Iversen PW, Dantzig AH. Human carboxylesterase-2 hydrolyzes the prodrug of gemcitabine (LY2334737) and confers prodrug sensitivity to cancer cells. Clin Cancer Res. 2013 Mar 1;19(5):1159-68.

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