Product Data Sheet

Product Name: LY 254155
Cat. No.: GC33322

Chemical Properties

Cas. No.	135503-67-2		
SMILES	O=C1C2=C(NCC(CCC(S3)=CC=C3C(N[C@@H](CCC(O)=O)C(O)=O)=O)C2)N=C(N)N1		
Formula	$C_{19}H_{23}N_5O_6S$	M.Wt	449.48
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	LY 254155		

Protocol

Animal experiment:

Mice[1]C3H mice are used. LY 254155 is dosed on days 1, 4, 7, and 10 (4 treatment days). Cumulative dose is calculated using the formula (daily dose×number of treatment days). Doses are administered in mg of LY 254155 per kg of mouse weight (5, 10, 20, and 40 mg/kg), and 10 mice are inoculated at each dosing level, including a no-compound control group. % inhibition of tumor growth is calculated[1].

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References:

[1]. Habeck LL, et al. A novel class of monoglutamated antifolates exhibits tight-binding inhibition of humanglycinamide ribonucleotide formyltransferase and potent activity against solid tumors. Cancer Res. 1994 Feb 15;54(4):1021-6.

Background

LY 254155, an antifolate, inhibits hGARFT and binds to mFBP with Kis of 2.1±0.2 and 1.7±0.1 nM, respectively.

LY 254155 inhibits recombinant human monofunctional glycinamide ribonucleotide formyltransferase (hGARFT) and binds to membrane folate-binding protein (mFBP) [1].

LY 254155 is active against a broad panel of murine and human xenograft solid tumors. LY 254155 (5, 10, 20, and 40 mg/kg) inhibits murine C3H carcinoma growth in C3H mice, with % inhibition of tumor growth is 49%, 71%, 90%, and 94%, respectively[1].

[1]. Habeck LL, et al. A novel class of monoglutamated antifolates exhibits tight-binding inhibition of humanglycinamide ribonucleotide formyltransferase and potent activity against solid tumors. Cancer Res. 1994 Feb 15;54(4):1021-6.

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